

1

Variable	Mean	Standard Deviation	Minimum	Maximum
Age	34.5	10.2	22	55
Gender	0.5	0.5	0	1
Marital Status	0.6	0.5	0	1
Education	12.5	2.1	9	16
Income	15000	5000	5000	30000
Health	0.8	0.2	0	1
Smoking	0.3	0.5	0	1
Alcohol	0.2	0.4	0	1
Exercise	0.4	0.5	0	1
Stress	0.6	0.5	0	1
Depression	0.3	0.5	0	1
Loneliness	0.4	0.5	0	1
Life Satisfaction	0.7	0.3	0	1
Quality of Life	0.8	0.2	0	1
Overall Health	0.9	0.1	0	1
Physical Health	0.9	0.1	0	1
Mental Health	0.8	0.2	0	1
Social Health	0.7	0.3	0	1
Emotional Health	0.6	0.4	0	1
Behavioral Health	0.5	0.5	0	1
Environmental Health	0.4	0.5	0	1
Occupational Health	0.3	0.5	0	1
Financial Health	0.2	0.4	0	1
Family Health	0.1	0.3	0	1
Community Health	0.0	0.2	0	1
National Health	0.0	0.1	0	1
Global Health	0.0	0.0	0	1

FIGURE 2

MDWPHNLLFLLTISIFLGLGQPRSPKSKRKGQGRPGPLAPGPHQVPLDLVSRMKPYARMEEYERNIEEMVA
QLRNSSELAQRKCEVNLQLWMSNKRSLSPWGYSINHDPRI PVDLPEARCLCLGCVNPFTMQEDRSMVSVP
VFSQVPVRRRLCPPPPRTGPCRQRAVMETIAVGCTCIF

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GCCAGGTGTGCAGGCCGCTCCAAGCCAGCCTGCCCCGCTGCCGCCACC**ATG**ACGCTCCTCCCCGGCCTCC
TGTTTTCTGACCTGGCTGCACACATGCCTGGCCCCACCATGACCCCTCCCTCAGGGGGCACCCCCACAGTCAC
GGTACCCCACTGCTACTCGGCTGAGGAACTGCCCCTCGGCCAGGCCCCCCCCACACCTGCTGGCTCGAGG
TGCCAAAGTGGGGGCAGGCTTTGCCCTGTAGCCCTGGTGTCCAGCCTGGAGGCAGCAAGCCACAGGGGGAGGC
ACGAGAGGCCCTCAGCTACGACCCAGTGCCCCGTGCTGCGGCCGGAGGAGGTGTTGGAGGCAGACACCCAC
CAGCGCTCCATCTCACCCCTGGAGATACCGTGTGGACACGGATGAGGACCGCTATCCACAGAAGCTGGCCTT
CGCCGAGTGCCGTGTGCAGAGGCTGTATCGATGCACGGACGGGCCGCGAGACAGCTGCGCTCAACTCCGTGC
GGCTGCTCCAGAGCCTGCTGGTGTGCGCCGCCGGCCCTGCTCCCGCAGCGGCTCGGGGCTCCCCACACCT
GGGGCCTTTGCCCTTCCACACCGAGTTCATCCACGTCCCCGTGCGCTGCACCTGCGTGCTGCCCCGTTCACT
G**TGA**CCGCCGAGGCCGTGGGGCCCCCTAGACTGGACACGTGTGCTCCCAGAGGGCACCCCCCTATTTATGTG
TATTTATTGTTATTTATATGCTCCCCCAACACTACCCCTGGGGTCTGGGCATTCCCCGTGTCTGGAGGAC
AGCCCCCACTGTTCTCTCATCTCCAGCCTCAGTAGTTGGGGGTAGAAGGAGCTCAGCACCTCTTCCAGC
CCTTAAAGCTGCAGAAAAGGTGTCACACGGCTGCCTGTACCTTGGCTCCCTGTCTCTCCCGCTTCCCT
TACCCATATCACTGGCCTCAGGCCCCGCAGGCTGCCTCTTCCCAACCTCCTTGGAAGTACCCCTGTTTCTTA
AACAATTATTTAAAGTGTACGTGTATTATTAAACTGATGAACACATCCCCAAA

FIGURE 4

MTLLPGLLFLTWLHTCLAHHDPSLRGHPSHGTTPHCYSAEELPLGQAPPHLLARGAKWGQALPVALVSSLE
AASHRGRHERPSATTQCPVLRPEEVLEADTHQRSISPWRYRVDTDEDYPQKLAFAECLCRGCIDARTGRE
TAALNSVRLQLQLLVLRRRPCSRDGSLPTPGAFHTEFIHVPVGCTCVLPRSV

Signal peptide:	Amino acids 1-18
Tyrosine kinase phosphorylation site:	Amino acids 112-121
N-myristoylation sites:	Amino acids 32-38;55-61;133-139
Leucine zipper pattern:	Amino acids 3-25
Homologous region to IL-17:	Amino acids 99-195

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FIGURE 5

GGCTTGCTGAAAATAAAATCAGGACTCCTAACCTGCTCCAGTCAGCCTGCTTCCACGAGGCCTGTCAGTCA
GTGCCCCGACTTGTGACTGAGTGTGCAGTGCCAGCATGTACCAGGTGAGTGCAGAGGGCTGCCTGAGGGCT
GTGCTGAGAGGGAGAGGAGCAGAGATGCTGCTGAGGGTGGAGGGAGGCCAAGCTGCCAGGTTTGGGGCTGG
GGGCCAAGTGGAGTGAGAACTGGGATCCCAGGGGGAGGGTGCAGATGAGGGAGCGACCCAGATTAGGTGA
GGACAGTTCTCTCATTAGCCTTTTCTACAGGTGGTGCATTCTTGGCAATGGTCATGGGAACCCACACCT
ACAGCCACTGGCCCAGCTGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACT
GTGCCTGTGCCTCCCCTAGAGCCTGCTAGGCCCAACCGCCACCCAGAGTCCTGTAGGGCCAGTGAAGATGGA
CCCCCTCAACAGCAGGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTGAACCGGCTCCCCCAGGA
CCTGTACCACGCCCCGTTGCCTGTGCCCCGCACTGCGTCAGCCTACAGACAGGCTCCACATGGACCCCCGGG
GCAACTCGGAGCTGCTCTACCACAACCAGACTGTCTTCTACAGGCGGCCATGCCATGGCGAGAAGGGCACC
CACAAGGGCTACTGCCTGGAGCGCAGGCTGTACCGTGTTTCCTTAGCTTGTGTGTGTGTGCGGCCCCGTGT
GATGGGCTAGCCGGACCTGCTGGAGGCTGGTCCCTTTTGGGAAACCTGGAGCCAGGTGTACAACCACTTG
CCATGAAGGGCCAGGATGCCCAGATGCTTGGCCCCCTGTGAAGTGCTGTCTGGAGCAGCAGGATCCCCGGGAC
AGGATGGGGGGCTTTGGGGAAAACCTGCACCTTCTGCACATTTTGAAAAGAGCAGCTGCTGCTTAGGGCCGC
CGGAAGCTGGTGTCTGTCTCTCAGGAAAGGTTTCAAAGTTCTGCCCATTCTGAGAGGCCACCA
CTCCTGTCTCTTCTCTTTTCCCATCCCCTGCTACCTGGCCCAGCACAGGCACTTCTAGATATTTCCCC
CTTGCTGGAGAAGAAAGAGCCCCCTGGTTTTATTTGTTTGTACTCATCACTCAGTGAGCATCTACTTTGG
GTGCATTCTAGTGTAGTTACTAGTCTTTTGACATGGATGATTCTGAGGAGGAAGCTGTTATTGAATGTATA
GAGATTTATCCAAATAAATATCTTTATTTAAAAATGAAAAA

FIGURE 6

MRERPRLGEDSSLISLFLQVVAFLAMVMGTHYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHP
ESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQTVFYR
RPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG

Signal peptide: Amino acids 1-32

N-glycosylation site: Amino acids 136-140

Tyrosine kinase phosphorylation site: Amino acids 127-135

N-myristoylation sites: Amino acids 44-50;150-156

205757 2570007

FIGURE 7

ATGCTGGTAGCCGGCTTCCTGCTGGCGCTGCCGCCGAGCTGGGCCGCGGGCGCCCCAGGGCGGGCAGGCG
CCCCGCGCGCCCGCGGGCTGCGCGGACCGGCCGAGGAGCTACTGGAGCAGCTGTACGGGCGCCTGGCGG
CCGGCGTGCTCAGTGCCCTTCCACCACACGCTGCAGCTGGGGCCGCGTGAGCAGGCGCGCAACGCGAGCTGC
CCGGCAGGGGGCAGGCCCCGGCGACCGCCGCTTCCGGCCGCCACCAACCTGCGCAGCGTGTGCGCCCTGGGC
CTACAGAATCTCCTACGACCCGGCGAGGTACCCAGGTACCTGCCTGAAGCCTACTGCCTGTGCCGGGGCT
GCCTGACCGGGCTGTTGCGCGAGGAGGACGTGCGCTTCCGCGAGCGCCCTGTCTACATGCCCCACCGTCGTC
CTGCGCCGCACCCCGCCTGCGCCGGCGGCCGTTCCGTCTACACCGAGGCCTACGTCACCATCCCCGTGGG
CTGCACCTGCGTCCCCGAGCCGGAGAAGGACGCAGACAGCATCAACTCCAGCATCGACAAACAGGGCGCCA
AGCTCCTGCTGGGCCCCAACGACGCGCCCGCTGGCCCTGAGGCCGCTCCTGCCCCGGGAGGTCTCCCCGG
CCCGCATCCCGAGGCGCCAAGCTGGAGCCGCTGGAGGGCTCGGTGCGCGACCTCTGAAGAGAGTGACACC
GAGCAAACCAAGTGCCGAGCACCAGCGCCGCTTTCATGGAGACTCGTAAGCAGCTTCATCTGACACGG
GCATCCCTGGCTTGCTTTTAGCTACAAGCAAGCAGCGTGGCTGGAAGCTGATGGGAAACGACCCGGCACGG
GCATCCTGTGTGCGGCCCGCATGGAGGGTTTGGAAGTTACGGAGGCTCCCTGAGGAGCCTCTCAGATC
GGCTGCTGCGGGTGAGGGCGTGACTCACCGCTGGGTGCTTGCCAAAGAGATAGGGACGCATATGCTTTTT
AAAGCAATCTAAAAATAATAATAAGTATAGCGACTATATACCTACTTTTAAATCAACTGTTTTGAATAGA
GGCAGAGCTATTTTATATTATCAAATGAGAGCTACTCTGTTACATTTCTTAACATATAAACATCGTTTTTT
ACTTCTTCTGGTAGAATTTTTTAAAGCATAATTGGAATCCTTGGATAAATTTGTAGCTGGTACACTCTGG
CCTGGGTCTCTGAATTCAGCCTGTCAACGATGGCTGACTGATGAAATGGACACGTCTCATCTGACCCACTC
TTCCTTCCACTGAAGTCTTCACGGGCCCTCCAGGTGGACCAAAGGGATGCACAGGCGGCTCGCATGCCCCA
GGGCCAGCTAAGAGTTCCAAAGATCTCAGATTTGGTTTTAGTCATGAATACATAAACAGTCTCAAACCTCGC
ACAATTTTTTCCCCCTTTTGAAAGCCACTGGGGCCAATTTGTGGTTAAGAGGTGGTGAGATAAGAAGTGA
ACGTGACATCTTTGCCAGTTGTCAGAAGAATCCAAGCAGGTATTGGCTTAGTTGTAAGGGCTTTAGGATCA
GGCTGAATATGAGGACAAAGTGGGCCACGTTAGCATCTGCAGAGATCAATCTGGAGGCTTCTGTTTCTGCA
TTCTGCCACGAGAGCTAGGTCCTTGATCTTTTCTTTAGATTGAAAGTCTGTCTCTGAACACAATTATTTGT
AAAAGTTAGTAGTTCTTTTTTAAATCATTAAAAGAGGCTTGCTGAAGGAT

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FIGURE 8

MLVAGFLLALPPSWAAGAPRAGRRPARPRGCADRPEELLEQLYGRLAAGVLSAFHHTLQLGPREQARNASC
PAGGRP GD RR FR PPTNLR SV SPWAYRISYDPARYPRYLPEAYCLCRGCLTGLFG EEDVRFRSAPVYMPTVV
LRRTPACAGGRSVYTEAYVTIPVGCTCVPEPEKDADSINSSIDKQAKLLLGPNDA PAGP

Signal peptide:	Amino acids 1-15
N-glycosylation sites:	Amino acids 68-72;181-185
Tyrosine kinase phosphorylation site:	Amino acids 97-106
N-myristoylation sites:	Amino acids 17-23;49-55;74-80; 118-124
Amidation site:	Amino acids 21-25

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FIGURE 9

CAACTGCACCTCGGTTCTATCGATAGCCACCAGCGCAACATGACAGTGAAGACCCTGCATGGCCCAGCCAT
GGTCAAGTACTTGCTGCTGTTCGATATTGGGGCTTGCCTTTCTGAGTGAGGCGGCAGCTCGGAAAATCCCCA
AAGTAGGACATACTTTTTTCCAAAAGCCTGAGAGTTGCCCCGCCTGTGCCAGGAGGTAGTATGAAGCTTGAC
ATTGGCATCATCAATGAAAACCAGCGCGTTTCCATGTCACGTAACATCGAGAGCCGCTCCACCTCCCCCTG
GAATTACACTGTCACTTGGGACCCCCAACCGGTACCCCTCGGAAGTTGTACAGGCCCAAGTGTAGGAACTTGG
GCTGCATCAATGCTCAAGGAAAGGAAGACATCTCCATGAATTCCGTTCCCATCCAGCAAGAGACCCTGGTCGTC
CGGAGGAAGCACCAAGGCTGCTCTGTTTCTTTCCAGTTGGAGAAGGTGCTGGTGAAGTGTGGCTGCACCTG
CGTCACCCCTGTCATCCACCATGTGCAGTAAGAGGTGCATATCCACTCAGCTGAAGAAG

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FIGURE 10

MTVKTLHGPMVKYLLLSILGLAFLSEAAARKIPKVGHTFFQKPESCPPVPGGSMKLDIGIINENQRVSMS
RNIESRSTSPWNYTWTWDPNRYPSSEVVQAQCRNLGCINAQGKEDISMNSVPIQQETLVVRRKHQGC SVSFQ
LEKVLVTVGCTCVTPVIHHVQ

Signal sequence:

Amino acids 1-30

N-glycosylation site:

Amino acids 83-86

N-myristoylation sites:

Amino acids 106-111;136-141

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FIGURE 11

CCGGCGATGTCGCTCGTGCTGCTAAGCCTGGCCGCGCTGTGCAGGAGCGCCGTACCCCGAGAGCCGACCGT
TCAATGTGGCTCTGAAACTGGGCCATCTCCAGAGTGGATGCTACAACATGATCTAATCCCCGAGAGCTTGA
GGGACCTCCGAGTAGAACCTGTTACAACAGTGTGCAACAGGGGACTATTCAATTTTGATGAATGTAAGC
TGGGTACTCCGGGCAGATGCCAGCATCCGCTTGTTGAAGGCCACCAAGATTTGTGTGACGGGCAAAAGCAA
CTTCCAGTCCTACAGCTGTGTGAGGTGCAATTACACAGAGGCCCTTCCAGACTCAGACCAGACCCTCTGGTG
GTAAATGGACATTTTCTTACATCGGCTTCCCTGTAGAGCTGAACACAGTCTATTTTATTGGGGCCCATAAT
ATTCTTAATGCAAATATGAATGAAGATGGCCCTTCCATGTCTGTGAATTTACCTCACCAGGCTGCCTAGA
CCACATAATGAAATATAAAAAAAGTGTGTCAAGGCCGAAGCCTGTGGGATCCGAACATCACTGCTTGTA
AGAAGAATGAGGAGACAGTAGAAGTGAACCTTCAACAACACTCCCCTGGGAAACAGATACATGGCTCTTATC
CAACACAGCACTATCATCGGGTTTTCTCAGGTGTTTGAGCCACACCAGAAGAAACAAACGCGAGCTTCAGT
GGTGATTCCAGTGACTGGGGATAGTGAAGGTGCTACGGTGCAGCTGACTCCATATTTTCTACTTGTGGCA
GCGACTGCATCCGACATAAAGGAACAGTTGTGCTCTGCCCACAAACAGGCGTCCCTTTCCCTCTGGATAAC
AACAAAAGCAAGCCGGGAGGCTGGCTGCCTCTCCTCCTGCTGTCTCTGCTGGTGGCCACATGGGTGCTGGT
GGCAGGGATCTATCTAATGTGGAGGCACGAAAGGATCAAGAAGACTTCCTTTTCTACCACCACACTACTGC
CCCCCATTAAGGTTCTTGTGGTTTACCCATCTGAAATATGTTTCCATCACACAATTTGTTACTTCACTGAA
TTTCTTCAAAACCATTGCAAGTGAGGTCACTCCTTGAAAAGTGGCAGAAAAAGAAAATAGCAGAGATGGG
TCCAGTGCAGTGGCTTGCCACTCAAAGAAGGCAGCAGACAAAGTCGTCTTCCTTCTTTCCAATGACGTCA
ACAGTGTGTGCGATGGTACCTGTGGCAAGAGCGAGGGCAGTCCCAGTGAGAACTCTCAAGACCTCTTCCCC
CTTGCCCTTTAACCTTTTCTGCAGTGATCTAAGAAGCCAGATTCACTGCACAAATACGTGGTGGTCTACTT
TAGAGAGATTGATACAAAAGACGATTACAATGCTCTCAGTGTCTGCCCCAAGTACCACCTCATGAAGGATG
CCACTGCTTTCTGTGCAGAACTTCTCCATGTCAAGCAGCAGGTGTGAGCAGGAAAAAGATACAAGCCTGC
CACGATGGCTGCTGCTCCTTGTA

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FIGURE 12

MSLVLLSLAALCRSAVPREPTVQCGSETGPSPEWMLQHDLPGLRDLRVEPVTTSVATGDYSILMNVSWV
LRADASIRLLKATKICVTGKSNFQSYSCVRCNYTEAFQTQTRPSGGKWTFSYIGFPVELNTVYFIGAHNIP
NANMNEDGPSMSVNFTSPGCLDHIMKYKKKCVKAGSLWDPNITACKKNEETVEVNFTTTPLGNRYMALIQH
STIIGFSQVFEPHQKKQTRASVVIPTVGDSEGATVQLTPYFPTCGSDCIRHKGTVVLCPQTGVFPPLDNNK
SKPGGWLPLLLLSLLVATWVLVAGIYLMWRHERIKKTSFSTTTLLPPIKVLVVYPSEICFHHTICYFTEFL
QNHCRSEVILEKWQKKKIAEMGPVQWLATQKKAADKVVFLLSNDVNSVCDGTCGKSEGSPSENSQDLFPLA
FNLFCSDLRSQIHLHKYVVVYFREIDTKDDYNALSVC PKYHLMKDATAFCAELLHVKKQVVSAGKRSQACHD
GCCSL

Signal sequence:	Amino acids 1-14
Transmembrane domain:	Amino acids 290-309
N-glycosylation sites:	Amino acids 67-70;103-106;156-159; 183-186;197-200;283-286
cAMP- and cGMP-dependent protein kinase phosphorylation sites:	Amino acids 228-231;319-322
N-myristoylation site:	Amino acids 116-121
Amidation site:	Amino acids 488-491

10000157.04.500

ACATCTGGCCAAAACAAAAGCAAGAACGAAAGCACTCCGTGCTGGAAGTAGGAGGAGAGTCTCAGGACTCCCAGGACACAGAG
 AGTGCACAAACTACCCAGCACAGCCCCCTCCGCCCCCTCTGGAGGCTGAAGAGGGATTCCAGCCCCCTGCCA
 CCCACAGACACGGGCTGACTGGGGTGTCTGCCCCCTTGGGGGGGGGACAGCACAGGGCCTCAGGCCTGGGT
 GCCACCTGGCACCTAGAAAGATGCTGTGCCCTGGTTCTTGCTGTCTTGGCACTGGGGCCGAAGCCCAAGTGG
 TCCTTTCTCTGGAGAGGCTTGTGGGGCCTCAGGACGCTACCCACTGCTCTCCGGGCCTCTCCTGCCGCCTC
 TGGGACAGTGACATACTCTGCCCTGCCTGGGGACATCGTGCCCTGCTCCGGGCCCCGTGCTGGCGCCTACGCA
 CCTGCAGACAGAGCTGGTGTCTGAGGTGCCAGAAGGAGACCGACTGTGACCTCTGTCTGCGTGTGGCTGTCC
 ACTTGGCCCGTGCATGGGCACTGGGAAGAGCCTGAAGATGAGGAAAAGTTTGGAGGAGCAGCTGACTCAGGG
 GTGGAGGAGCCTAGGAATGCCTCTCTCCAGGCCCAAGTCGTGCTCTCCTTCCAGGCCTACCCCTACTGCCCG
 CTGCGTCTGTCTGGAGGTGCAAGTGCCCTGCTGCCCTTGTGCAGTTTGGTCAGTCTGTGGGCTCTGTGGTATAT
 GACTGCTTCGAGGCTGCCCTAGGGAGTGAGGTACGAATCTGGTCCTATACTCAGCCCAGGTACGAGAAGGA
 ACTCAACCACACACAGCAGCTGCCTGCCCTGCCCTGGCTCAACGTGTCTCAGCAGATGGTGACAACGTGCATC
 TGGTTCTGAATGTCTCTGAGGAGCAGCACTTCGGCCTCTCCCTGTACTGGAATCAGGTCCAGGGCCCCCCA
 AAACCCCGGTGGCACAAAACCTGACTGGACCGCAGATCATTACCTTGAACCACACAGACCTGGTTCCCTG
 CCTCTGTATTAGGTGTGGCCTCTGGAACCTGACTCCGTTAGGACGAACATCTGCCCTTCAGGGAGGACC
 CCCGCGCACACCAGAACCTCTGGCAAGCCGCCGACTGCGACTGCTGACCCTGCAGAGCTGGCTGCTGGAC
 GCACCGTGCTCGCTGCCCGCAGAAGCGGCACCTGTGCTGGCGGGCTCCGGGTGGGGACCCCTGCCAGCCACT
 GGTCCCACCGCTTCTCTGGGAGAAGCTCACTGTGGACAAGGTTCTCAGATTCCCATTTGCTGAAAGGCCACC
 CTAACCTCTGTGTTTCAAGGTGAACAGCTCGGAGAAGCTGCAGCTGCAGGAGTGCTTGTGGGTGACTCCCTG
 GGGCCTCTCAAAGACGATGTGCTACTGTTGGAGACACGAGGCCCCCAGGACAACAGATCCCTCTGTGCCCTT
 GGAACCCAGTGGCTGTACTTCACTACCCAGCAAAGCCTCCACGAGGGCAGCTCGCCTTGGAGAGTACTTAC
 TACAAGACCTGCAGTCAGGCCAGTGCTCTGCAGCTATGGGACGATGACTTGGGAGCGCTATGGGCCTGCCCC
 ATGGACAAATACATCCACAAGCGCTGGGCCCTCGTGTGGCTGGCCTGCCTACTCTTTGCCGCTGCGCTTTC
 CCTCATCTCTCTTCTCAAAAAGGATCACGCGAAAGGGTGGCTGAGGCTCTTGAACAGGACGTCCGCTCGG
 GGGCGGCCCGCCAGGGGCCGCGCGGCTCTGCTCCTCTACTCAGCCGATGACTCGGGTTTCGAGCGCCTGGTG
 GGCGCCCTGGCGTTCGGCCCTGTGCCAGCTGCCGCTGCGCGTGGCCGTAGACCTGTGGAGCCGTGCTGAACT
 GAGCGCGCAGGGGCCCGTGGCTTGGTTTACGCGCAGCGGCCGACACCCTGCAGGAGGGCGGCGTGGTG
 TCTTGCTCTTCTCTCCCGGTGCGGTGGCGCTGTGCAGCGAGTGGCTACAGGATGGGGTGTCCGGGCCCGGG
 GCGCACGGCCCGCACGACGCCTTCCGCGCCTCGCTCAGCTGCGTGCTGCCCGACTTCTTGCAGGGCCGGGC
 GCCCCGCAGCTACGTGGGGCCTGCTTCGACAGGCTGCTCCACCCGGACGCCGTACCCGCCCTTTTTCGCA
 CCGTGCCCGTCTTCACTGCCCCCCCAACTGCCAGACTTCTTGGGGGCCCTGCAGCAGCCTCGCGCCCCG
 CGTTCGGGGCGGCTCCAAGAGAGAGCGGAGCAAGTGTCCCGGGCCCTTCAGCCAGCCCTGGATAGCTACTT
 CCATCCCCCGGGGACTCCCGCGCCGGGACGCGGGGTGGGACCAGGGGCGGGACCTGGGGCGGGGGACGGGA
 CTTAAATAAAGGCAGACGCTGTTTTTCTAAAAAAA

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FIGURE 14

MPVPWFLLSLALGRSPVVLRLVGPQDATHCSPGLSCRLWDSILCLPGDIVPAPGPFVLAPTHLQTELV
LRCQKETDCDLCLRVAVHLAVHGHWEPEDEEKFGGAADSGVEEPRNASLQAQVVLVSFQAYPTARCVLLEV
QVPAALVQFGQSVGSVVYDCFEAALGSEVRIWSYTPRYEKELNHTQQLPALPWLNVSAADGNVHLVLNV
EEQHFGLSLYWNQVQGGPKPRWHKNLTGPQIITLNHTDLVPCLCIQVWPLEPDSVRTNICPFREDPRAHQ
LWQAARLRLTLQSWLLDAPCSLPAAALCWRAPGGDPCQPLVPPLSWENVTVDKVLEFPLLKGHPNLCVQ
VNSSEKLQEQECLWADSLGPKDDVLLLETRGPQDNRSLEPSGCTSLPSKASTRAARLGEYLLQDLQS
GQCLQLWDDDLGALWACPMKYIHKRWALVWLACLLFAAALSLILLKKDHAKGWLRLLLKQDVRSAAAARG
RAALLYSADDSGFERLVGALASALCQLPLRVAVDLWSRRELQAQGPVAVFHAQRRQTLQEGGVVLLFSP
GAVALCSEWLQDGVSGPAHGPHDAFRASLSCVLPDFLQGRAPGSYVGACFDRLLHPDAVPALFRTVPVFT
LPSQLPDFLQALQPPRPRSGRLQERAEQVSRAALQPALDSYFHPPGTPAPGRGVGPGAGPGAGDGT

signal sequence:	Amino acids 1-20
transmembrane domain:	Amino acids 453-473
N-glycosylation sites:	Amino acids 118-121;186-189;198-201; 211-214;238-241;248-251;334-337; 357-360;391-394
Glycosaminoglycan attachment site:	Amino acids 583-586
cAMP- and cGMP-dependent protein kinase phosphorylation site:	Amino acids 552-555
N-myristoylation sites:	Amino acids 107-112;152-157;319-324; 438-443;516-521;612-617;692-697; 696-701;700-705

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FIGURE 15

CGAGGGCTCCTGCTGGTACTGTGTTGCTGCTGCACAGCAAGGCCCTGCCACCCACCTTCAGGCCATGCAG
CCATGTTCCGGGAGCCCTAATTGCACAGAAGCCCATGGGGAGCTCCAGACTGGCAGCCCTGCTCCTGCCTC
TCCTCCTCATAGTCATCGACCTCTCTGACTCTGCTGGGATTGGCTTTCGCCACCTGCCCCACTGGAACACC
CGCTGTCTCTGGCCTCCACACGGATGACAGTTTCACTGGAAGTTCTGCCTATATCCCTTGCCGCACCTG
GTGGGCCCTCTTCTCCACAAAGCCTTGGTGTGTGCGAGTCTGGCACTGTTCCCGCTGTTTGTGCCAGCATCTGC
TGTCAAGTGGCTCAGGTCTTCAACGGGGCCTCTTCCACCTCCTGGTGCAGAAATCCAAAAGTCTTCCACA
TTCAAGTTCTATAGGAGACACAAGATGCCAGCACCTGCTCAGAGGAAGCTGCTGCCTCGTCGTACCTGTCTC
TGAGAAGAGCCATCACATTTCCATCCCCTCCCCAGACATCTCCACAAAGGGACTTCGCTCTAAAAGGACCC
AACCTTCGGATCCAGAGACATGGGAAAGTCTTCCCAGATTGGACTCACAAAGGCATGGAGGACCCGAGTTC
TCCTTTTGATTTGCTGCCTGAGGCCCGGGCTATTCCGGGTGACCATATCTTCAGGCCCTGAGGTGAGCGTGCG
TCTTTGTCAACAGTGGGCACTGGAGTGTGAAGAGCTGAGCAGTCCCTATGATGTCCAGAAAATTGTGTCTG
GGGGCCACACTGTAGAGCTGCCTTATGAATTCTTCTGCCCTGTCTGTGCATAGAGGCATCCTACCTGCAA
GAGGACACTGTGAGGCGCAAAAAATGTCCCTTCCAGAGCTGGCCAGAAGCCTATGGCTCGGACTTCTGGAA
GTCAGTGCACCTTCACTGACTACAGCCAGCACACTCAGATGGTCATGGCCCTGACACTCCGCTGCCCCTGA
AGCTGGAAGCTGCCCTCTGCCAGAGGCACGACTGGCATAACCCTTTGCAAAAGACCTCCCGAATGCCACGGCT
CGAGAGTCAGATGGGTGGTATGTTTTGGAGAAGGTGGACCTGCACCCCCAGCTCTGCTTCAAGTTCTCTTT
TGGAACAGCAGCCATGTTGAATGCCCCCACCAGACTGGGTCTCTCACATCCTGGAATGTAAGCATGGATA
CCCAAGCCCAGCAGCTGATTCTTCACTTCTCCTCAAGAATGCATGCCACCTTCAGTGTCTGCCTGGAGCCTC
CCAGGCTTGGGGCAGGACACTTTGGTGCCCCCGGTGTACACTGTGAGCCAGGCCCCGGGGCTCAAGCCCAGT
GTCACTAGACCTCATCATTCCTTCTGAGGCCAGGGTGTGTCTGCTGGTGTGGCGGTGAGATGTCCAGT
TTGCCCTGGAAGCACCTCTTGTGTCCAGATGTCTCTTACAGACACCTGGGGCTCTTGATCCTGGCACTGCTG
GCCCTCCTCACCTACTGGGTGTTGTTCTGGCCCTCACCTGCCGGCGCCACAGTCAGGCCCGGGCCAGC
GCGGCCAGTGTCTCTCTGCACGCGGCGGACTCGGAGGCGCAGCGGCGCCTGGTGGGAGCGCTGGCTGAAC
TGCTACGGGCAGCGCTGGGCGGCGGCGGCGACGTGATCGTGGACCTGTGGGAGGGGAGGCACGTGGCGCGCGT
GGGCCCCGTGCCGTGGCTCTGGGCGGCGGCGGACGCGCGTAGCGCGGGAGCAGGGCACTGTGCTGCTGCTGT
GGAGCGGCGCCGACCTTCGCCCCGCTCAGCGGCCCGACCCCCGCGCCGCGCCCCCTGCTCGCCCTGCTCCAC
GCTGCCCCGCGCCGCTGCTGCTGCTGCTTACTTCAGTCGCCTCTGCGCCAAGGGCGACATCCCCCGCC
GCTGCGCGCCCTGCCGCGCTACCGCCTGCTGCGCGACCTGCCCGTCTGCTGCGGGCGCTGGACGCGCGGC
CTTTCGCAGAGGCCACCAGCTGGGGCCGCCTTGGGGCGCGGCAGCGCAGGCAGAGCCGCTAGAGCTGTGC
AGCCGGCTTGAACGAGAGGCGCCCGACTTGCAGACCTAGGTTGAGCAGAGCTCCACCGCAGTCCCGGGTGTCT

MGSSRLAALLPLLLIVIDLSDSAGIGFRHLPHWNTRCPLASHTDDSFSGSSAYIPCRTWWALFSTKPCWC
RVWHCSRCLCQHLLSGGSLQRLFLHLLVQKSKSSTFKFYRRHKMPAPAQKLLPRRHLSEKSHHISIPS
PDISHKGLRSKRTQPSDPETWESLPRLDSQRHGGPEFSFDLLPEARAIRVTISSGPEVSVRLCHQWALECE
ELSSPYDVQKIVSGGHTVELPYEFLLPCLCIEASYLQEDTVRRKKCPFQSWPEAYGSDFWKSVHFTDYSQH
TQMVMALTLCPLKLEAALCQRHDWHTLCKDLPNATARESDGWVYLEKVDLHPQLCFKFSFGNSSHVECPH
QTGSLTSWNVSMDTQAQQLILHFSSRMHATFSAAWSLPGLGQDTLVPPVYTVSQARGSSPVSLDLIIPFLR
PGCCVLVWRSDVQFAWKHLLCPDVSYRHLGLLILALLALLTLLGVVLALTCRRPQSGPGPARPVLLLLHAAD
SEAQRRLVGALAEALLRAALGGGRDIVDLWEGRHVARVGPLPWLWAARTVAREQGTVLLLLWSGADLRPVS
GDPRAAPLILALLHAAPRPLLLLAYFSRLCAKGDI PPPLRALPRYRLLRDLPRLLRALDARPF AEATSWGR
LGARORROSRLLELCSRLEREARLADLG

Signal peptide:	Amino acids 1-23
Transmembrane domain:	Amino acids 455-472
N-glycosylation sites:	Amino acids 318-322;347-351;364-368
Glycosaminoglycan attachment site:	Amino acids 482-486
cAMP- and cGMP-dependent protein kinase phosphorylation sites:	Amino acids 104-108;645-649
Tyrosine kinase phosphorylation site:	Amino acids 322-329
N-myristoylation sites:	Amino acids 90-96;358-364;470-476
Eukaryotic cobalamin-binding proteins:	Amino acids 453-462

FIGURE 17

GCCAGGCCCTATCTCCCTGCCAGGAGGCCGAGTGGGGGAGGTCAGACGGGGCGGTGGAGGGGGAGGGAT
 GCCACGCGCTTCTGCCTCAGGTGTTCTGCGTTGTTTGTCACTGGAGAGCAGGGAGTGGGGCCAGCCAGCA
 GAAACAGTGGGCTGTACAACATCACCTTCAAATATGACAATTGTACCACCTACTTGAATCCAGTGGGAAG
 CATGTGATTGCTGACGCCCAGAATATCACCATCAGCCAGTATGCTTGCCATGACCAAGTGGCAGTCACCAT
 TCTTTGGTCCCCAGGGGCCCTCGGCATCGAATTCCTGAAAGGATTTCTGGGTAATACTGGAGGAGCTGAAGT
 CGGAGGGAAGACAGTGCCAACAACTGATTCTAAAGGATCCGAAGCAGCTCAACAGTAGCTTCAAAGAAGT
 GGAATGGAATCTCAACCTTTCCTGAATATGAAATTTGAAACGGATTATTTCTGTAAGGTTGTCCCTTTTCC
 TTCCATTAAAAACGAAAGCAATTACCACCTTTCTTCTTTAGAACCCGAGCCTGTGACCTGTTGTTACAGC
 CGGACAATCTAGCTTGTAACCTTCTGGAAGCCTCGGAACCTGAACATCAGCCAGCATGGCTCGGACATGC
 AGGTGTCCTTCGACCACGCACCGCATGGCTCGGACATGCAGGTGTCCTTCGACCACGCACCGCACAACTTC
 GGCTTCCGTTTCTTCTATCTTCACTACAAGCTCAAGCACGAAGGACCTTCAAGCGAAAGACCTGTAAGCA
 GGAGCAAACCTACAGAGATGACCAGCTGCCTCCTTCAAATGTTTCTCCAGGGGATTATATAATTGAGCTGG
 TGGATGACACTAACACAACAAGAAAAGTGATGCATTATGCCTTAAAGCCAGTGCACTCCCCGTGGGCCGGG
 CCCATCAGAGCCGTGGCCATCACAGTGCCACTGGTAGTCATATCGGCATTTCGCGACGCTCTTCACTGTGAT
 GTGCCGCAAGAAGCAACAAGAAAATATATATTACATTTAGATGAAGAGAGCTCTGAGTCTTCCACATACA
 CTGCAGCACTCCCAAGAGAGAGGCTCCGGCCCGGCCGAAGGTCTTCTCTGCTATTCCAGTAAAGATGGC
 CAGAATCACATGAATGTCGTCCAGTGTTCGCTACTTCTCCAGGACTTCTGTGGCTGTGAGGTGGCTCT
 GGACCTGTGGGAAGACTTCAGCCTCTGTAGAGAAGGGCAGAGAGAATGGGTATCCAGAAGATCCACGAGT
 CCCAGTTCATCATTTGTGGTTTGTTCCAAAGGTATGAAGTACTTTGTGGACAAGAAGAACTACAAACACAAA
 GGAGGTGGCCGAGGCTCGGGGAAAGGAGAGCTTCTCTGGTGGCGGTGTCAGCCATTGCCGAAAAGCTCCG
 CCAGGCCAAGCAGAGTTCGTCCGCGGCGCTCAGCAAGTTTATCGCCGTCTACTTTGATTATTCTGCGAGG
 GAGACGTCCCCGGTATCCTAGACCTGAGTACCAAGTACAGACTCATGGACAATCTTCTCAGCTCTGTTCC
 CACCTGCACCTCCCGAGACCACGGCCTCCAGGAGCCGGGGCAGCACACGCGACAGGGCAGCAGAAGGAACCTA
 CTTCCGGAGCAAGTCAGGCCGGTCCCTATACGTGCGCATTTGCAACATGCACCAGTTTATTGACGAGGAGC
 CCGACTGGTTTCGAAAAGCAGTTTCGTTCCCTTCCATCCTCCTCCACTGCGCTACCGGGAGCCAGTCTTGAG
 AAATTTGATTTCGGGCTTGGTTTAAATGATGTCATGTGCAAAACAGGGCCTGAGAGTGACTTCTGCCTAAA
 GGTAGAGGCGGCTGTTCTTGGGGCAACCGGACCAGCCGACTCCCAGCACGAGAGTCAGCATGGGGGCCCTGG
 ACCAAGACGGGGAGGCCCGGCTGCCCTTGACGGTAGCGCCGCCCTGCAACCCCTGCTGCACACGGTGAAA
 GCCGGCAGCCCCTCGGACATGCCGCGGGACTCAGGCATCTATGACTCGTCTGTGCCCTCATCCGAGCTGTC
 TCTGCCACTGATGGAAGGACTCTCGACGGACCAGACAGAAACGTCTTCCCTGACGGAGAGCGTGTCTCCTCT
 CTTCAGGCCCTGGGTGAGGAGGAACCTCCTGCCCTTCTTCCAAGCTCCTCTCTTCTGGGTGATGCAAGCA
 GATCTTGGTTGCCGAGCTACACTGATGAACTCCACGCGGTGCGCCCTTTGTAACAAAACGAAAGAGTCTA
 AGCATTGCCACTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

FIGURE 18

MPRASASGVPA LFVSGEQGVGPASRNSGLYNITFKYDNCTTYLNPVGKHVIADAQNITISQYACHDQVAVT
ILWSPGALGIEFLKGFRVILEELKSEGRQCQQLILKDPKQLNSSFKRTGMESQPFLNMKFETDYFVKVVPF
PSIKNESNYHPFFFRTRACDLLLQPDNLACKPFWKPRNLNISQHGSDMQVSFDHAPHGSDMQVSFDHAPHN
FGFRFFYLHYKLKHEGPFKRKTCKQEQTTEMTSCLLQNVSPGDYIIELVDDTNTTRKVMHYALKPVHSPWA
GPIRAVAITVPLVVISAFATLFTVMCRKKQQENIYSHLDEESSESSTYTAALPRERLRPRPKVFLCYSSKD
GQNHMNVVQCFA YFLQDFCGCEVALDLWEDFSLCREGQREWVIQKI HESQFIIVVCSKGMKYFVDKKNYKH
KGGGRGSGKGELFLVAVSAIAEKL RQAKQSSSAALSKFIAVYFDYSCEGDVPGILD LSTKYRLMDNLPQLC
SHLHSRDHGLQEPGQHTRQGSRRNYFRSKSGRSLYVAICNMHQFIDEEDWF EKQFVFPFHPPLRYREPVL
EKFDSGLVLNDVMCKPGPESDFCLKVEAAVLGATGPADSQ HESQHGGLDQDGEARPALDGSAAALQPLLHTV
KAGSPSDMPRDSGIYDSSVPSSLSLPLMEGLSTDQTETSSLTESVSSSSGLGEEEPALPSKLLSSGSK
ADLGCRSYTDELHAVAPL

Transmembrane domain:

Amino acids 283-307

N-glycosylation sites:

Amino acids 31-34;38-41;56-59;
113-116;147-150;182-185;266-269

Glycosaminoglycan attachment sites: Amino acids 433-436;689-692

cAMP- and cGMP-dependent protein kinase phosphorylation:

Amino acids 232-235

Tyrosine kinase phosphorylation sites:

Amino acids 312-319;416-424

N-myristoylation site:

Amino acids 19-24;375-380;428-433;
429-434;432-437;517-522;574-579;
652-657;707-712

h-IL17
1 - - - - - M T P G K T S L V S L L L L S L E A I V K A G I T I P R
h-IL17B
1 - - - - - M D W P H N L L F L L T I S I F L G L G Q P R S P K S K R K G Q G R P G P L A P G P
h-IL17C
1 M T L L P G L L F L T W L H T C L A H H D P S L R G H P H S H G T P H C Y S A E E L P L G Q A P P H
h-IL17D
1 - - - - - M L V A G F L L A L P P S W A A G A P R A G R R P A R P R G C A A D R P
h-IL17E
1 - - - - - M R E R P R L G E D S S L I S L F L Q V V A F L A M V M G T H T Y S H
h-IL17F
1 - - - - - M T V K T L H G P A M V K Y L L S I L G L A F L S E A A R K I P K V G

[illegible]

h-IL17
h-IL17B
h-IL17C
h-IL17D
h-IL17E
h-IL17F

h-IL17 115 I Q Q E I L V L R R E P P H C P N S F R L E K I L V S V G C T C V T P I V H H V A

h-IL17B 143 V F S Q V P V R R R L C P P P P R T G P C R Q R A V M E T I A V G C T C I F

h-IL17C 151 L L Q S L L V L R R R P C S R D G S G L P T P G A F A F H T E F I H V P V G C T C V L P R S V

h-IL17D 136 V Y M P T V L R R T P A C A G G R S V Y T E A Y V T I P V G C T C V P E P E K D A D

h-IL17E 132 L L Y H N Q T V F Y R R P C H G E K G T H K G Y C L E R R L Y R V S L A C V C V R P R V M G

h-IL17F 123 I Q Q E T L V V R R K H Q G C S V S F Q L E K V L V T V G C T C V T P V I H H V Q

h-IL17D 179 S I N S S I D K Q G A K L L G P N D A P A G P X

FIG. 19

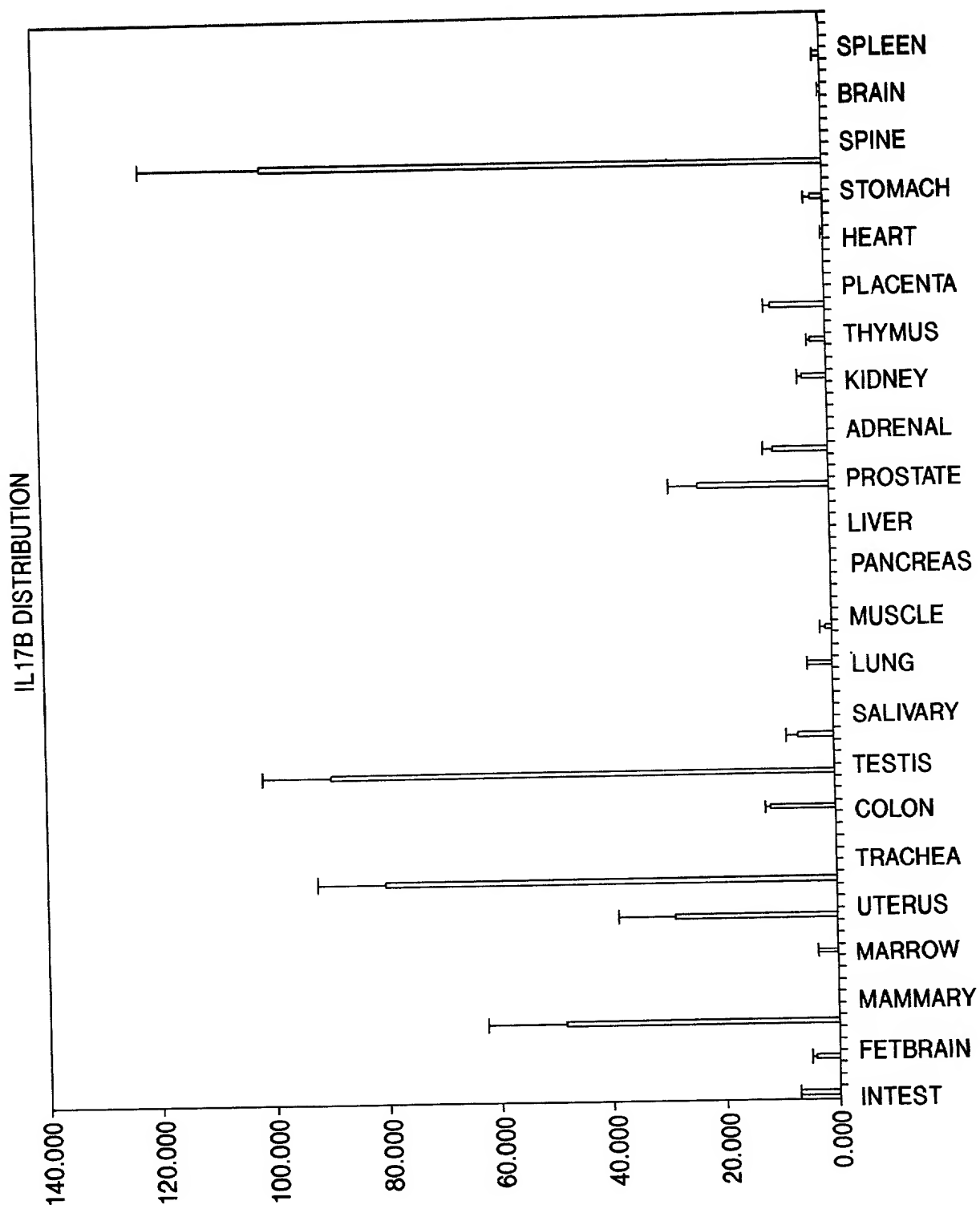


FIG. 20

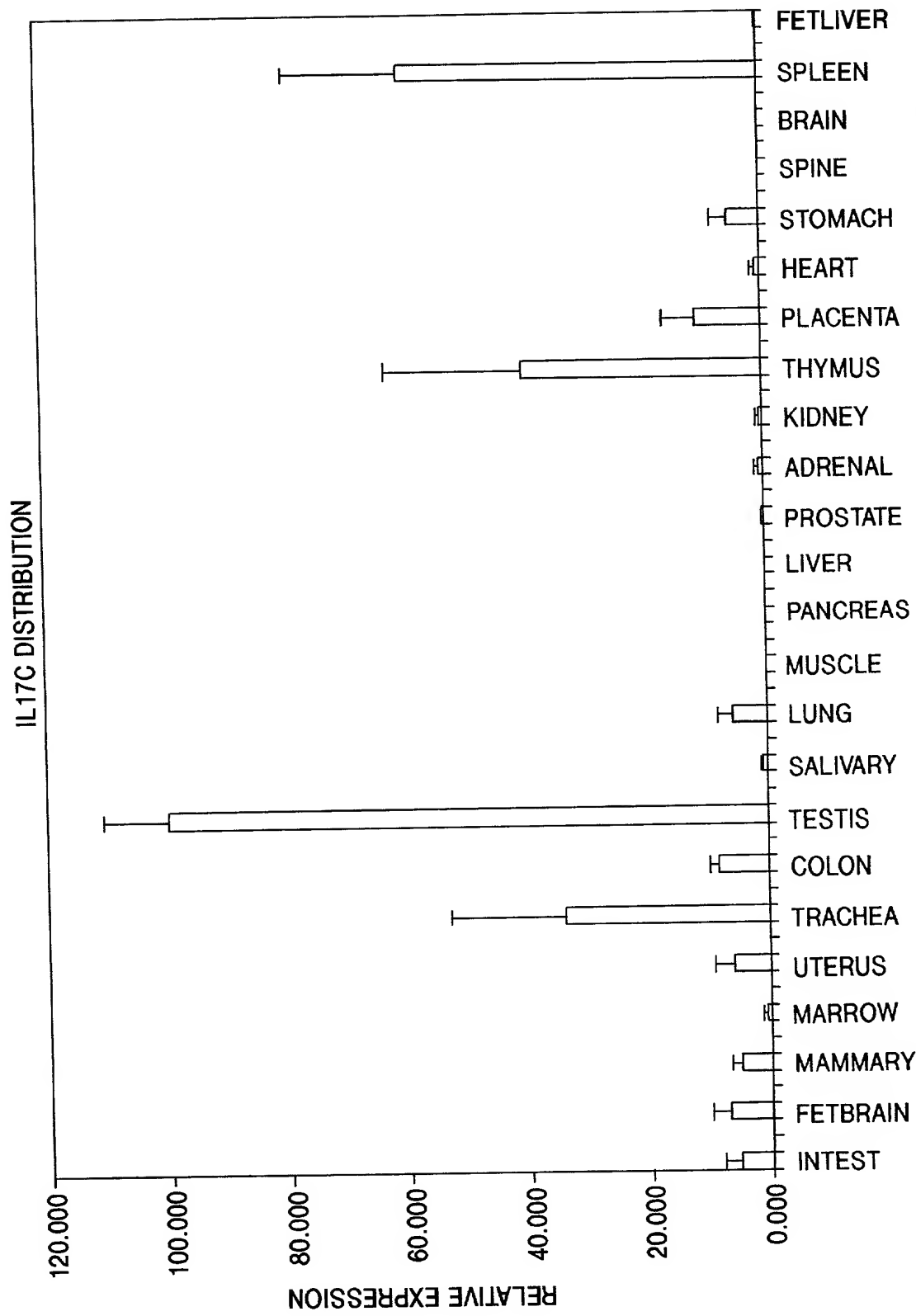
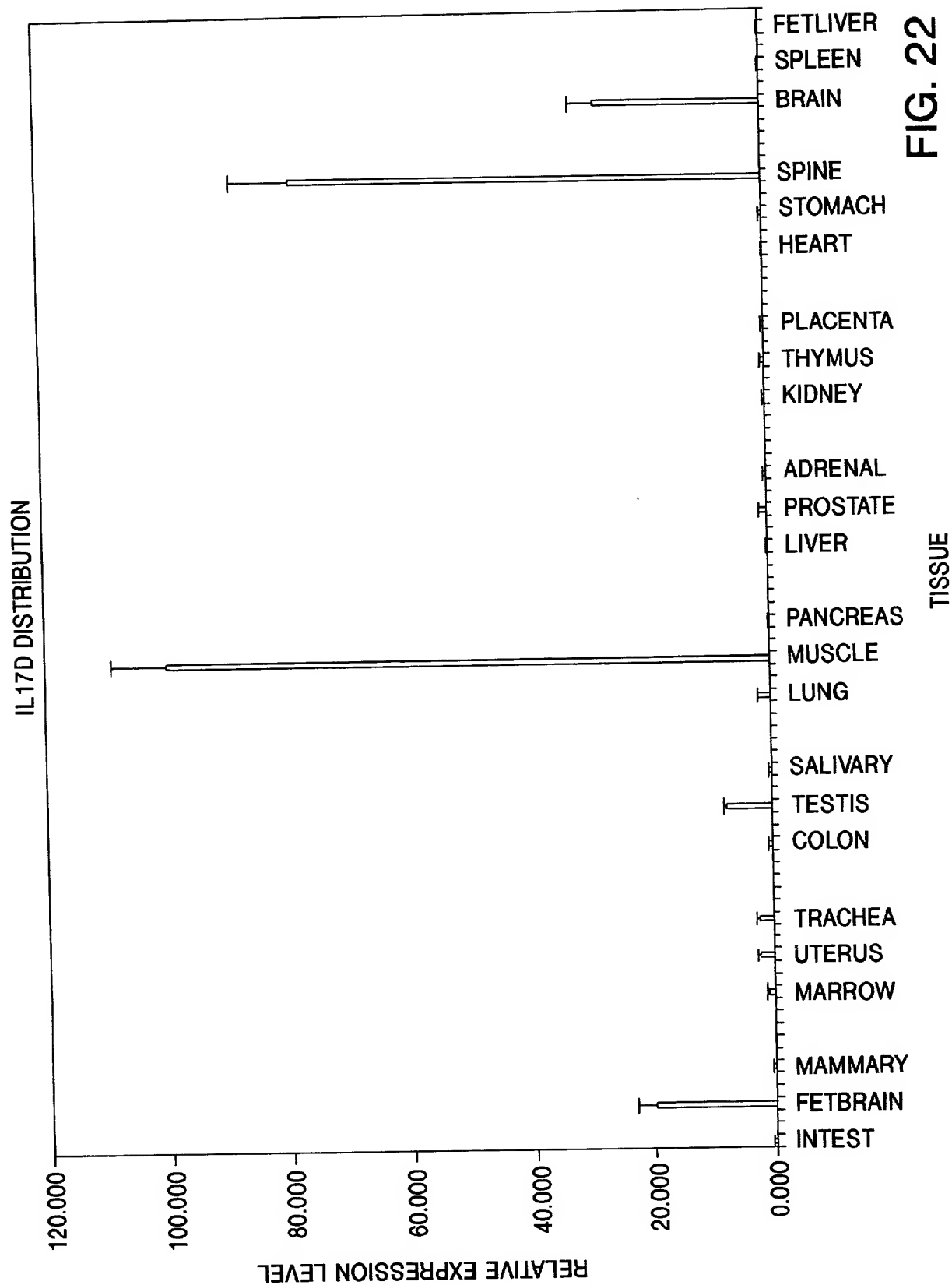


FIG. 21



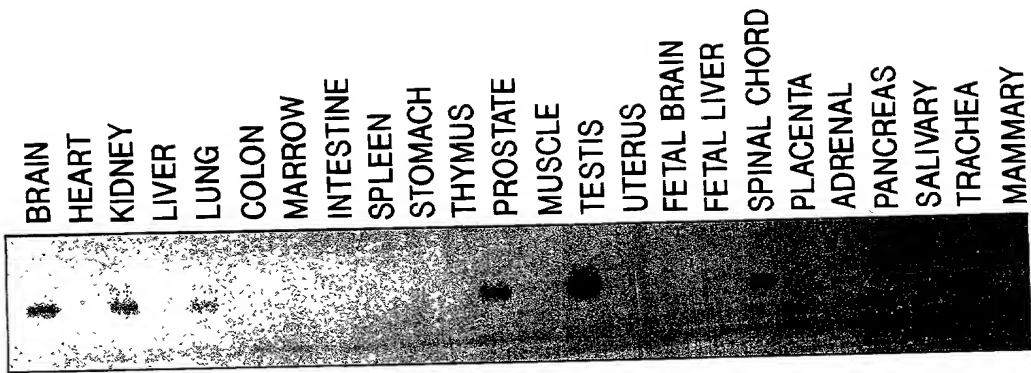


FIG. 23

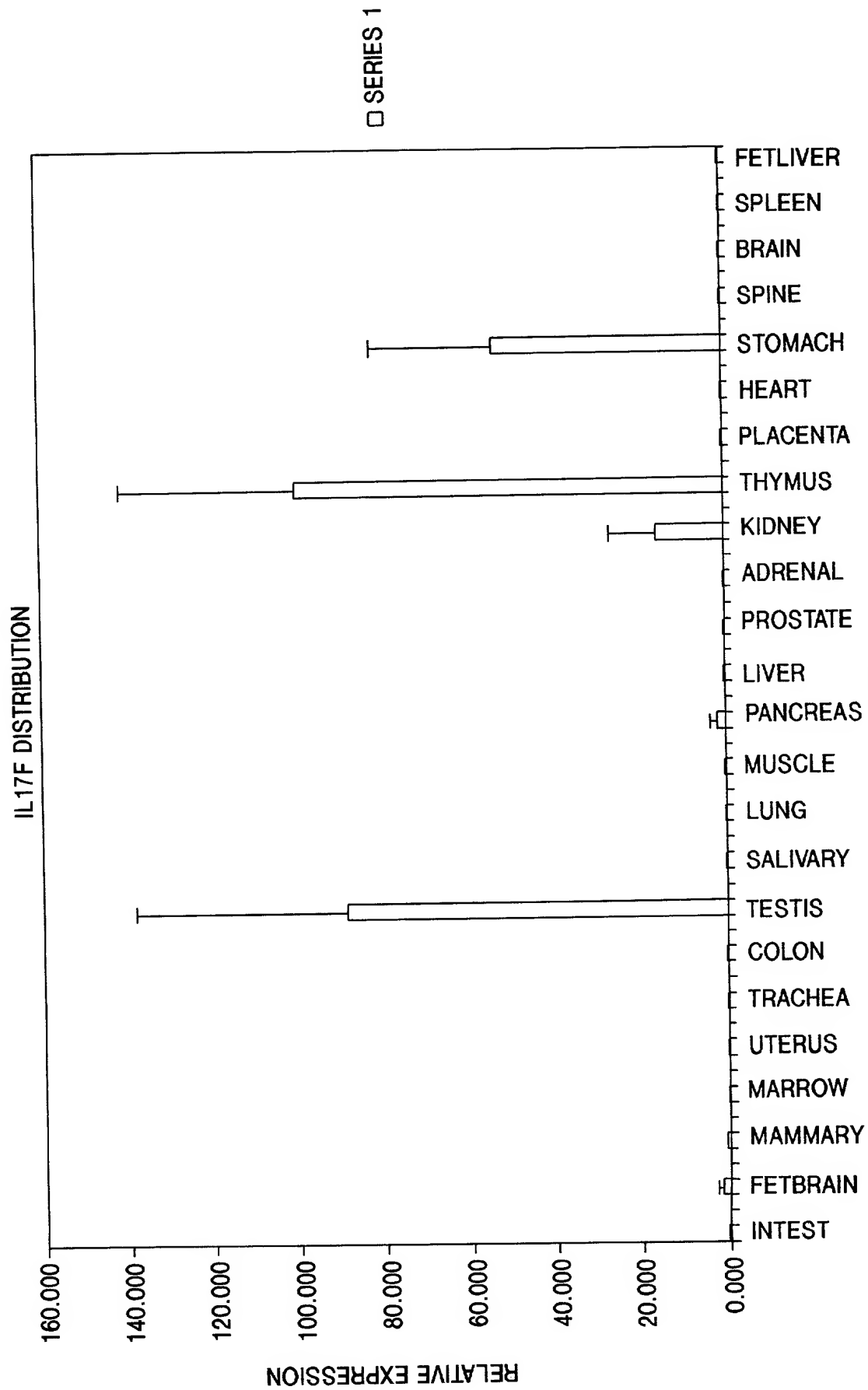


FIG. 24

205762 250000

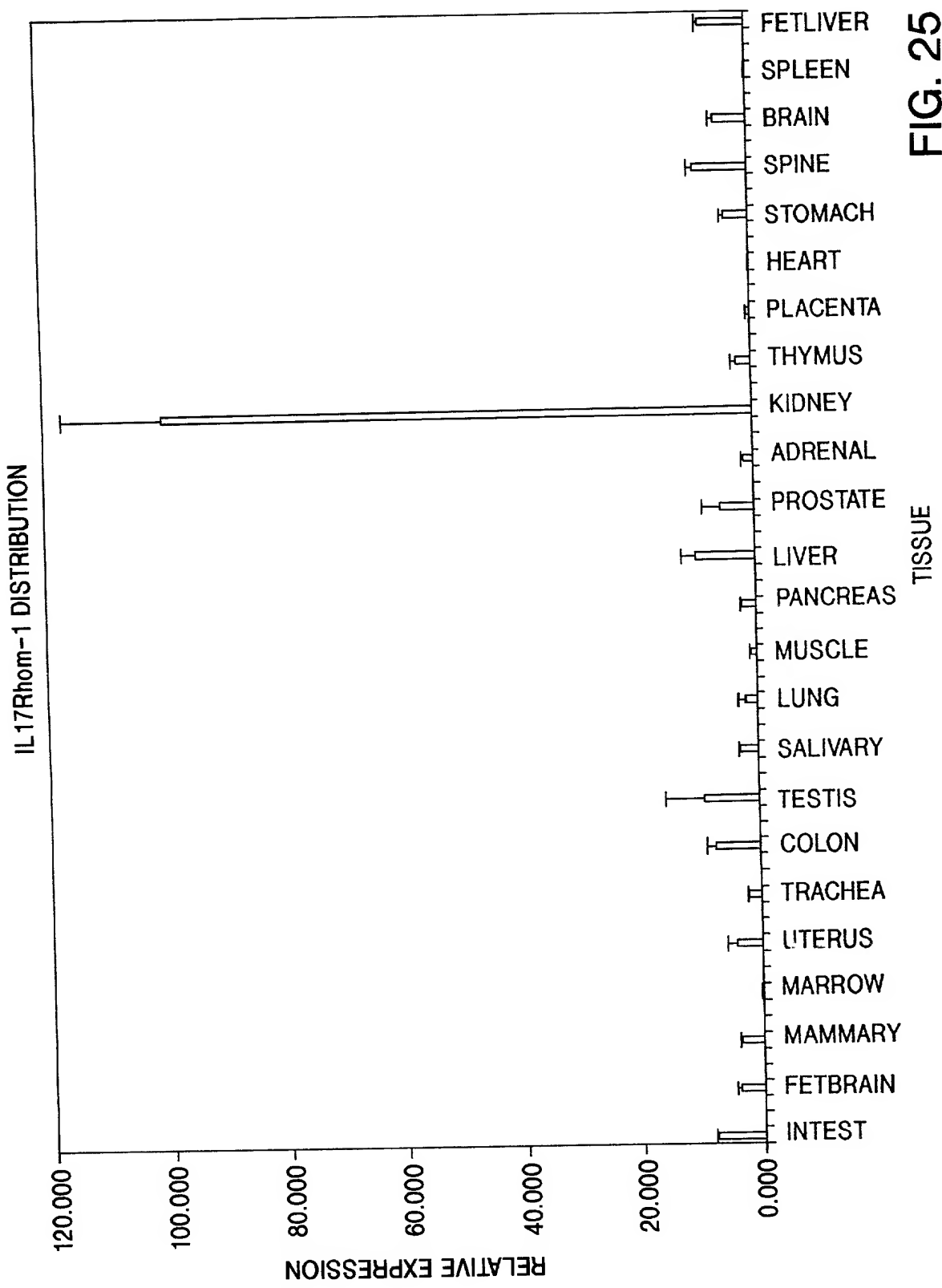


FIG. 25

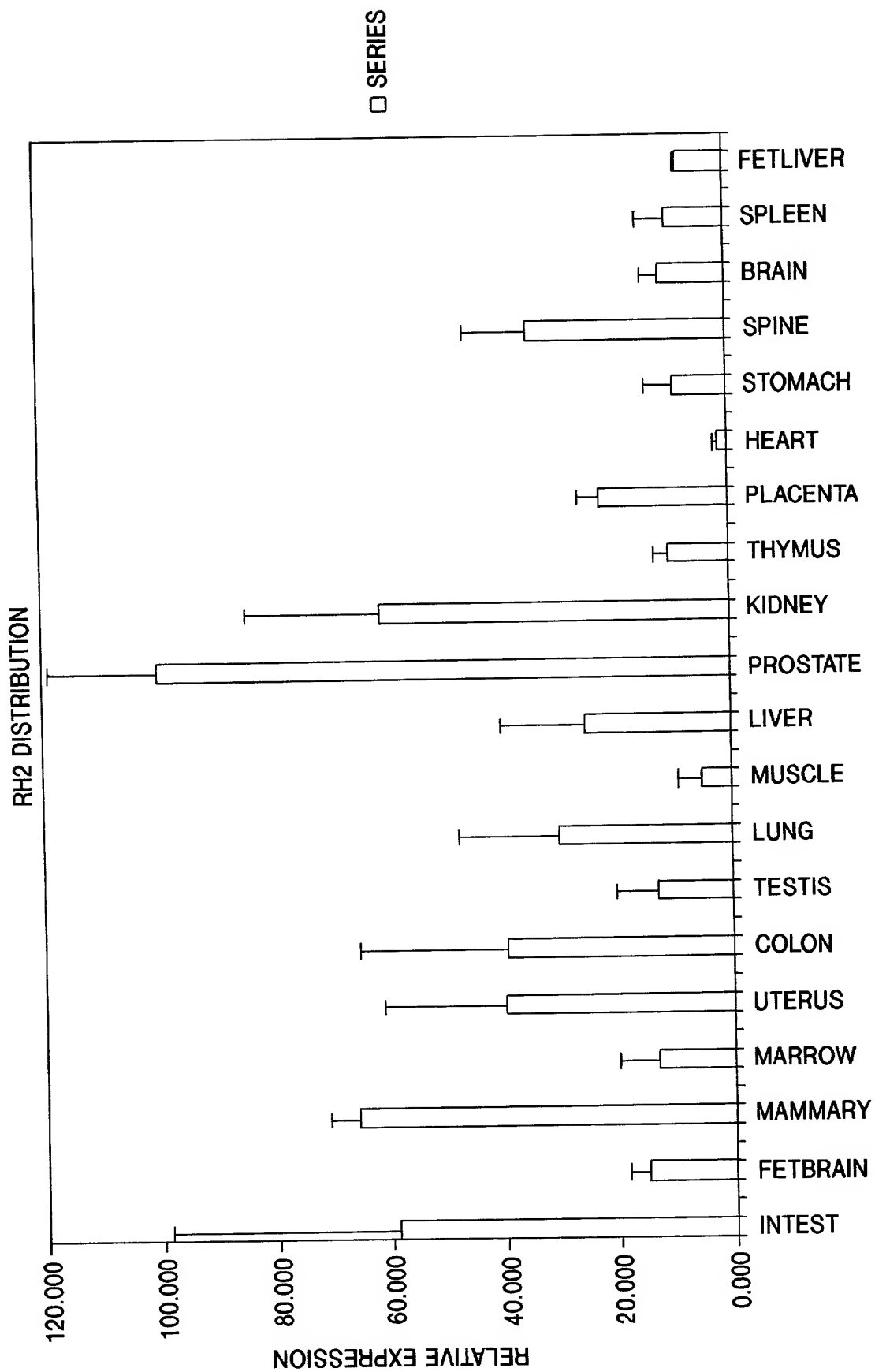


FIG. 26

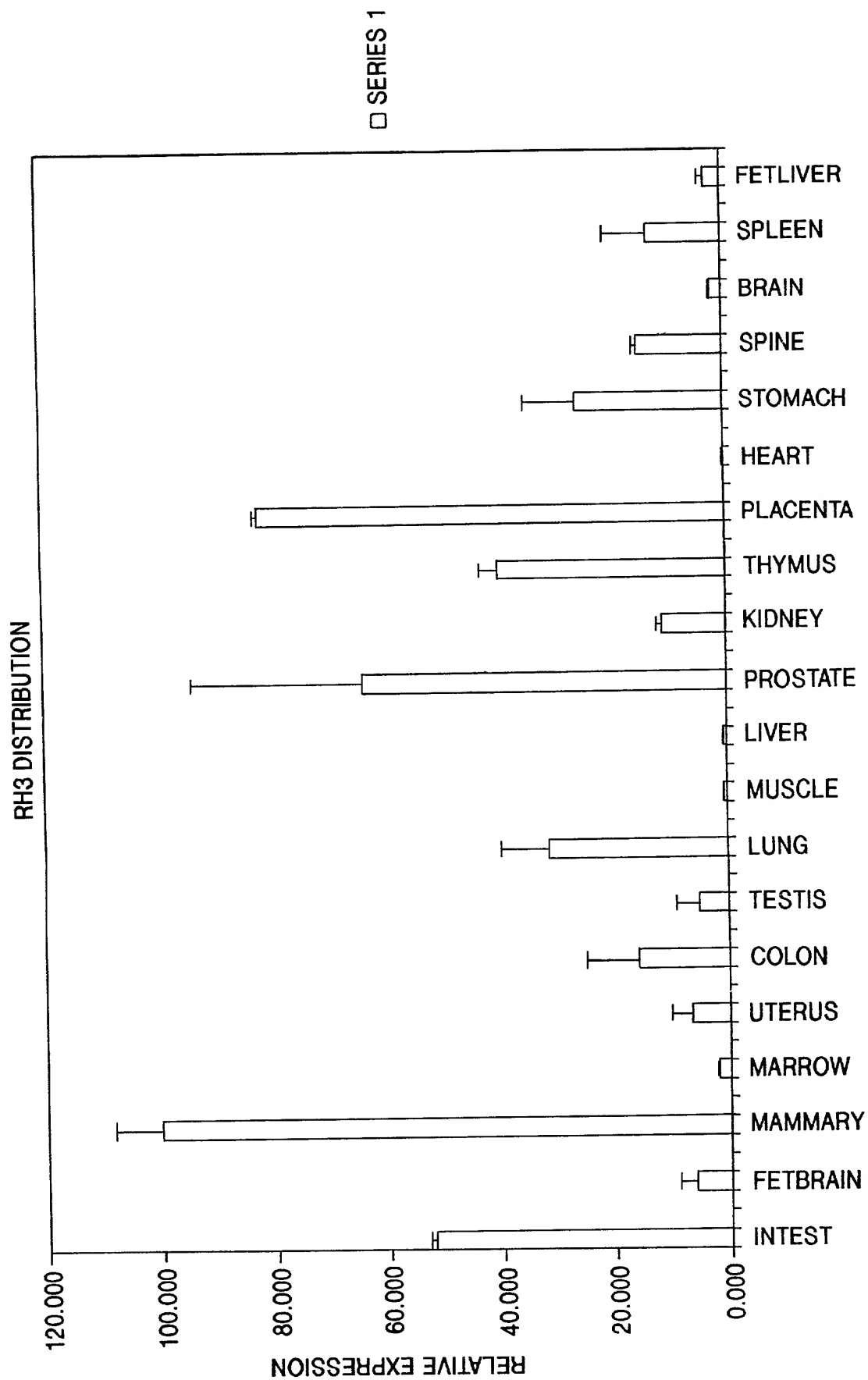


FIG. 27

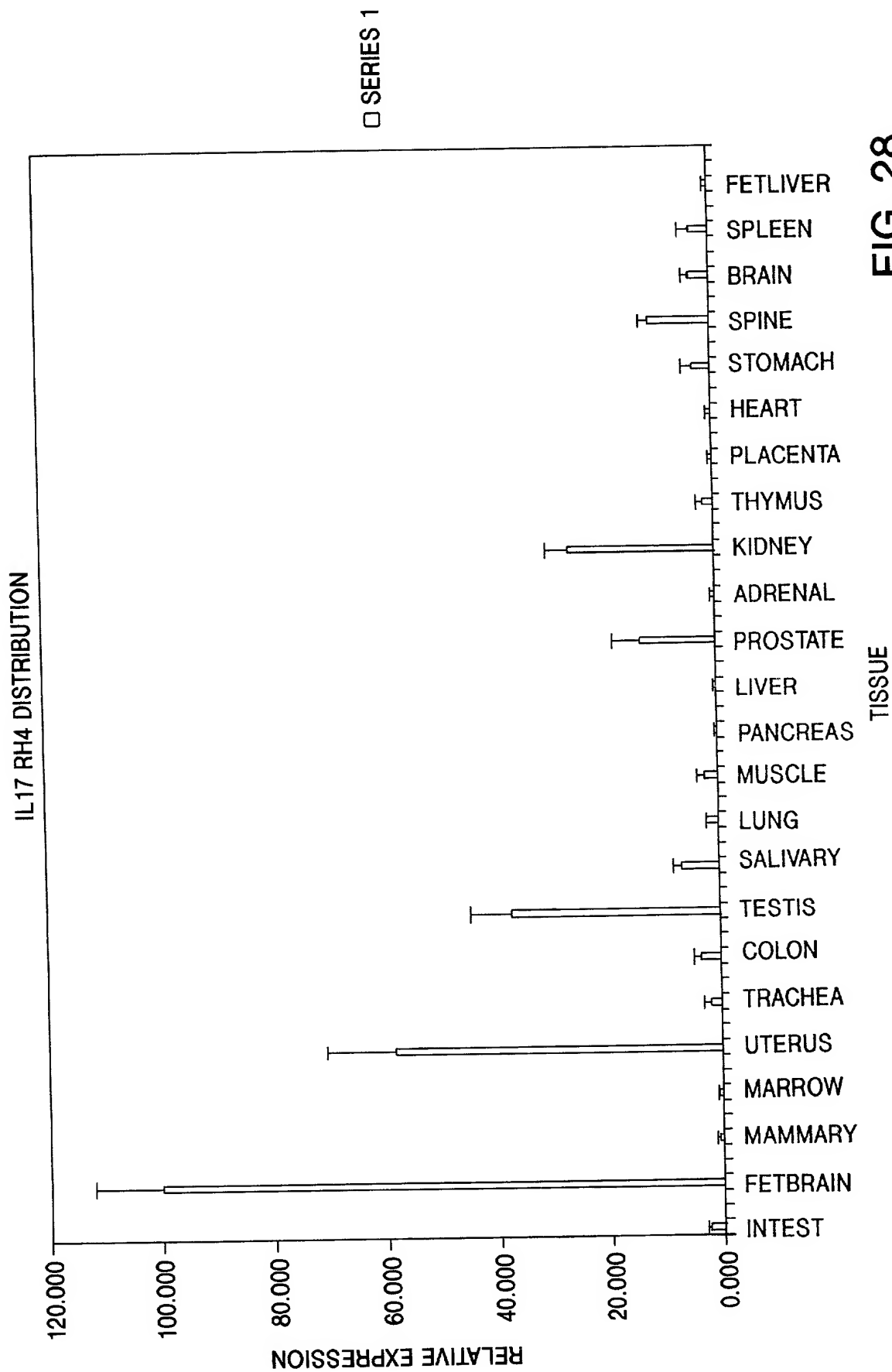


FIG. 28

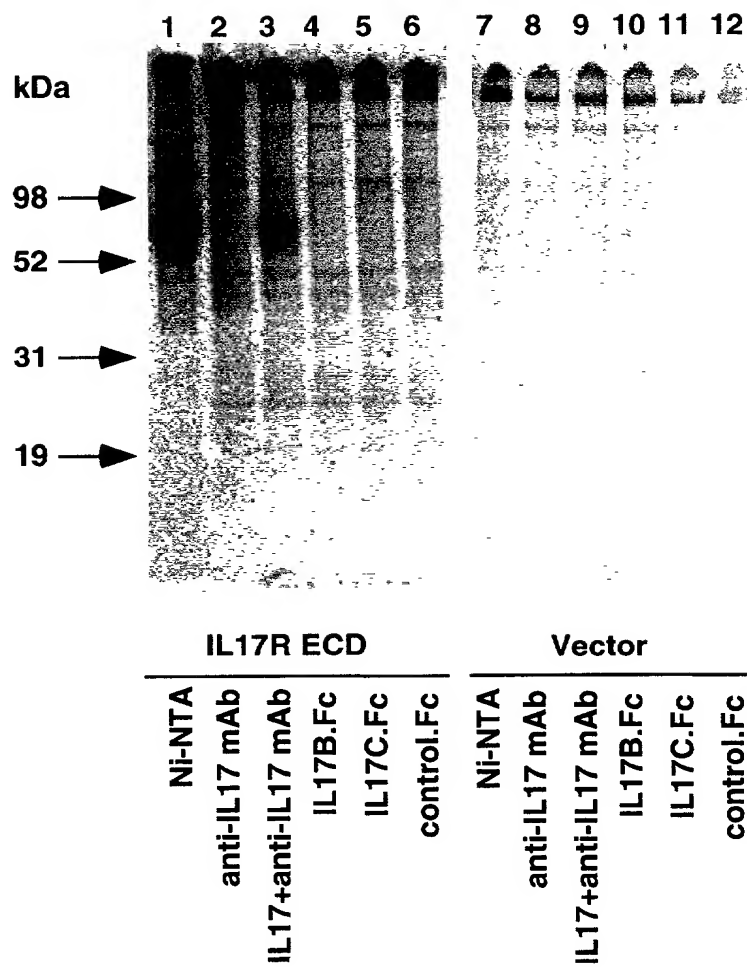


FIG. 29A

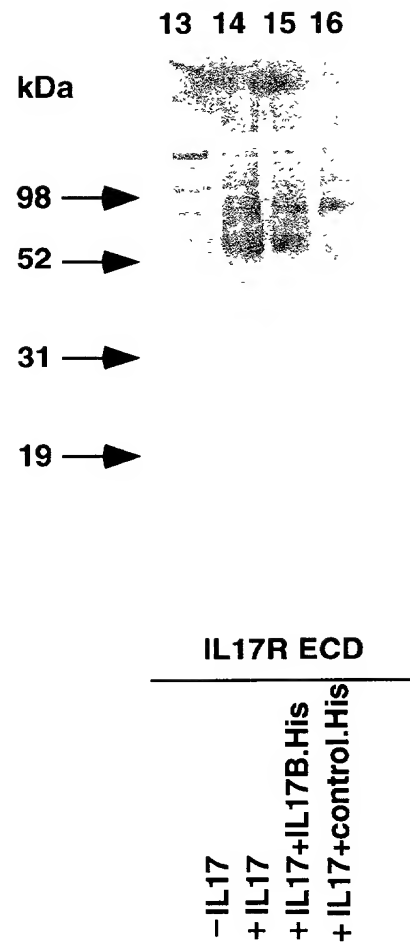


FIG. 29B

FIG. 30

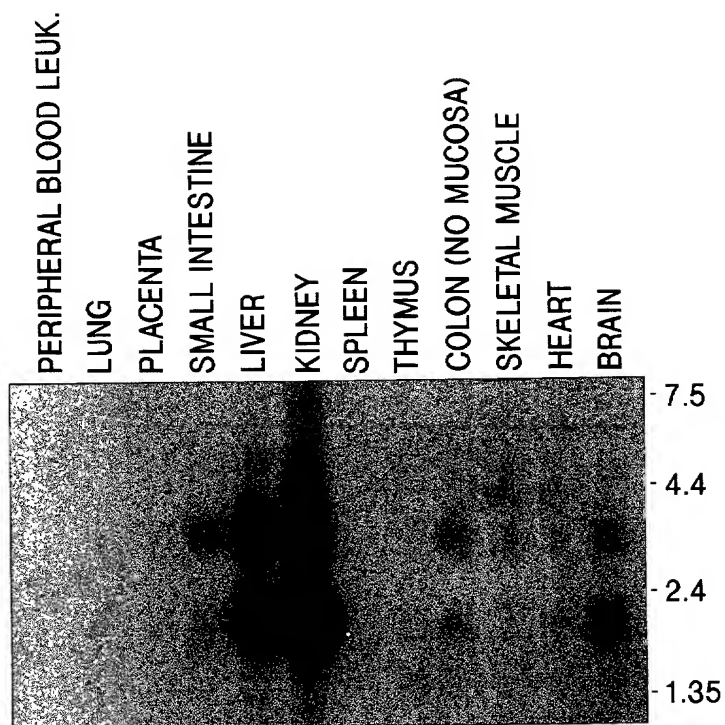


FIG. 31A

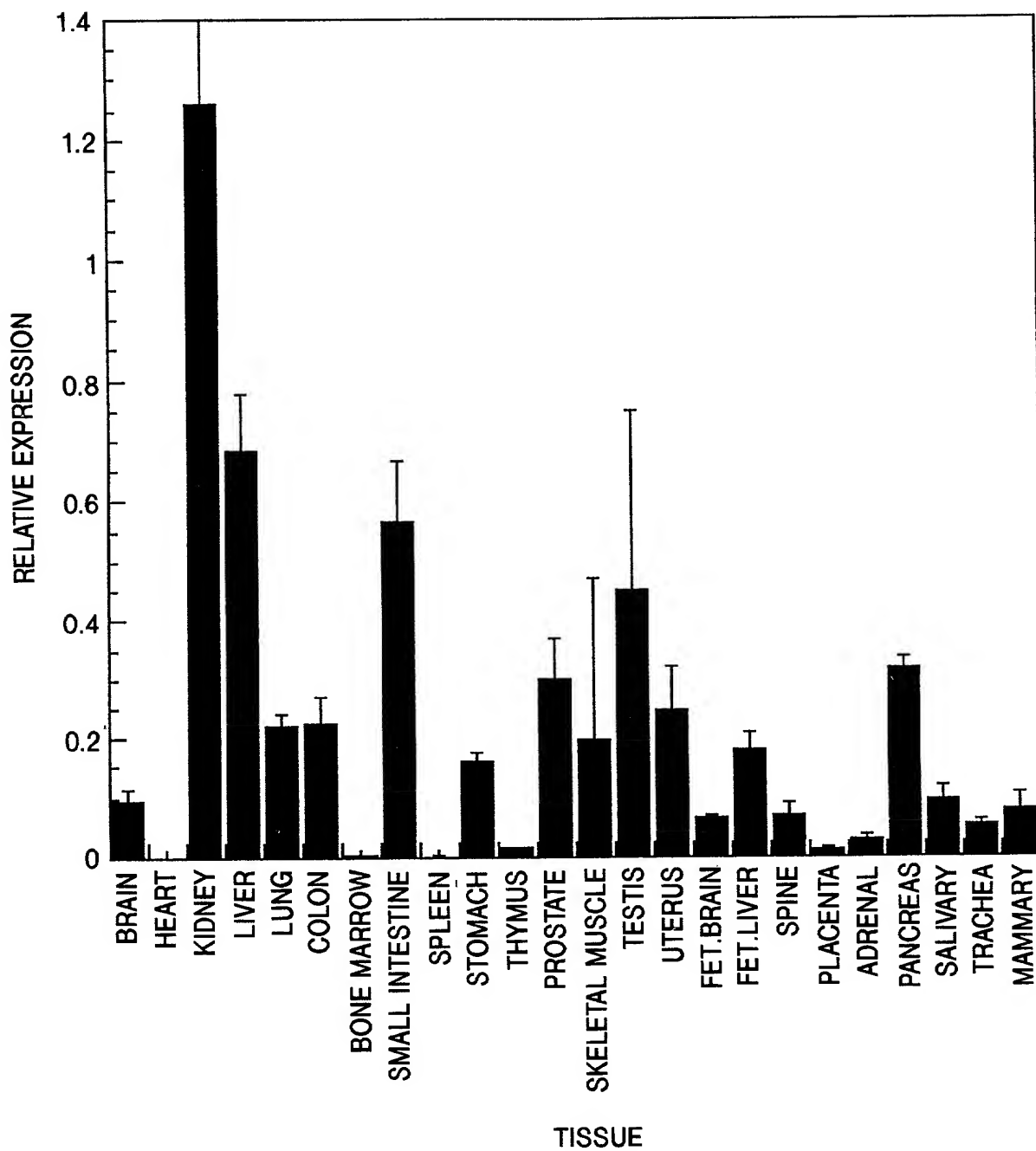


FIG. 31B

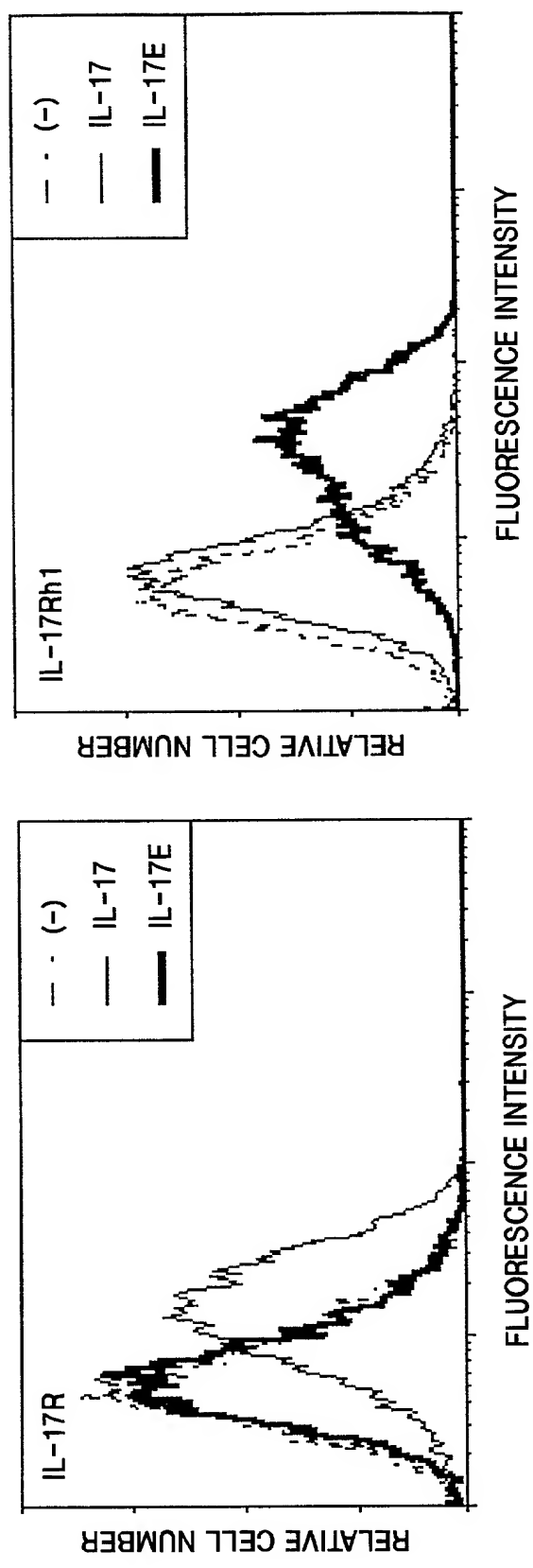


FIG. 32A

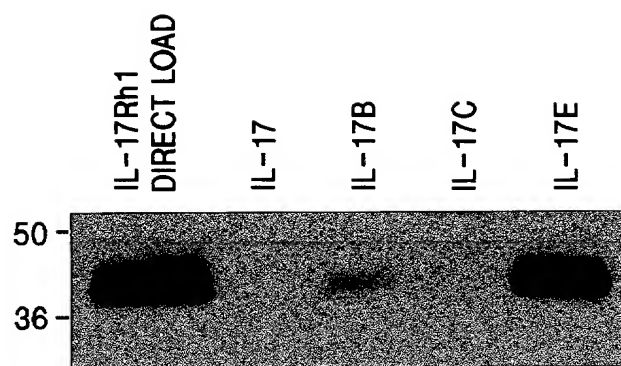


FIG. 32B

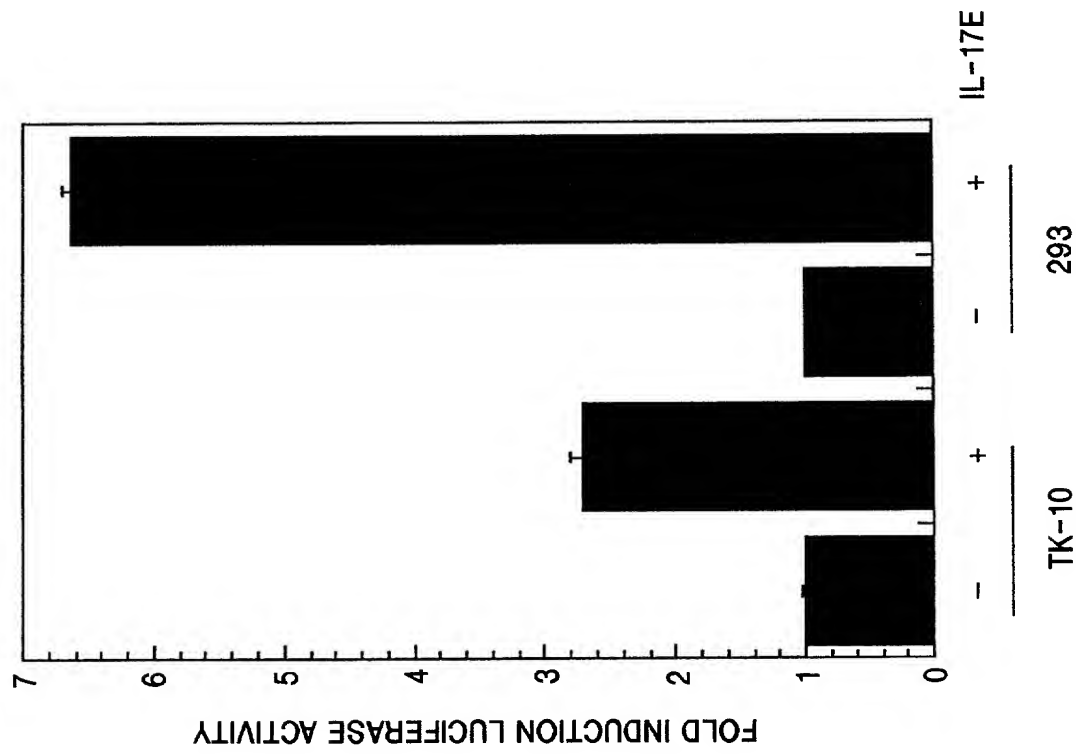


FIG. 33A

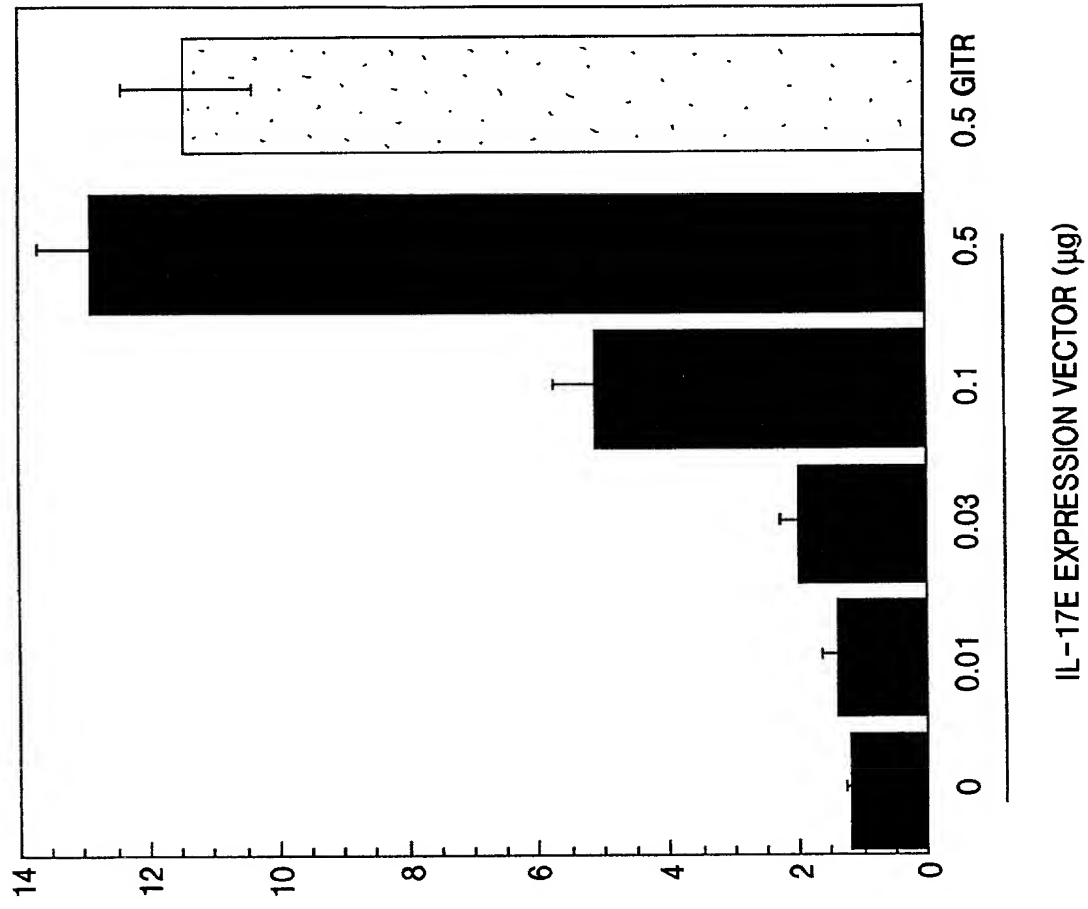


FIG. 33B

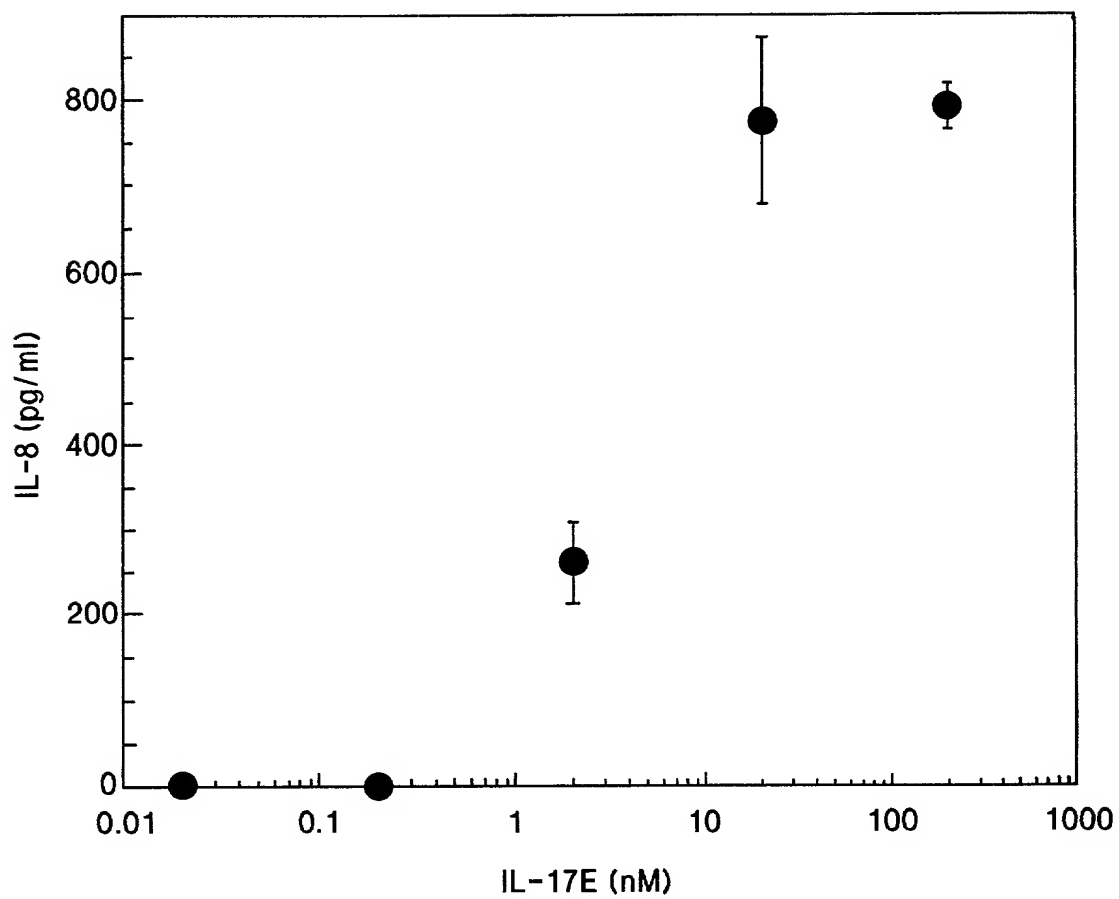


FIG. 34

IL-17 FAMILY OF CYTOKINES HAS COMPLEX PATTERN
OF OVERLAPPING RECEPTOR-LIGAND SPECIFICITIES

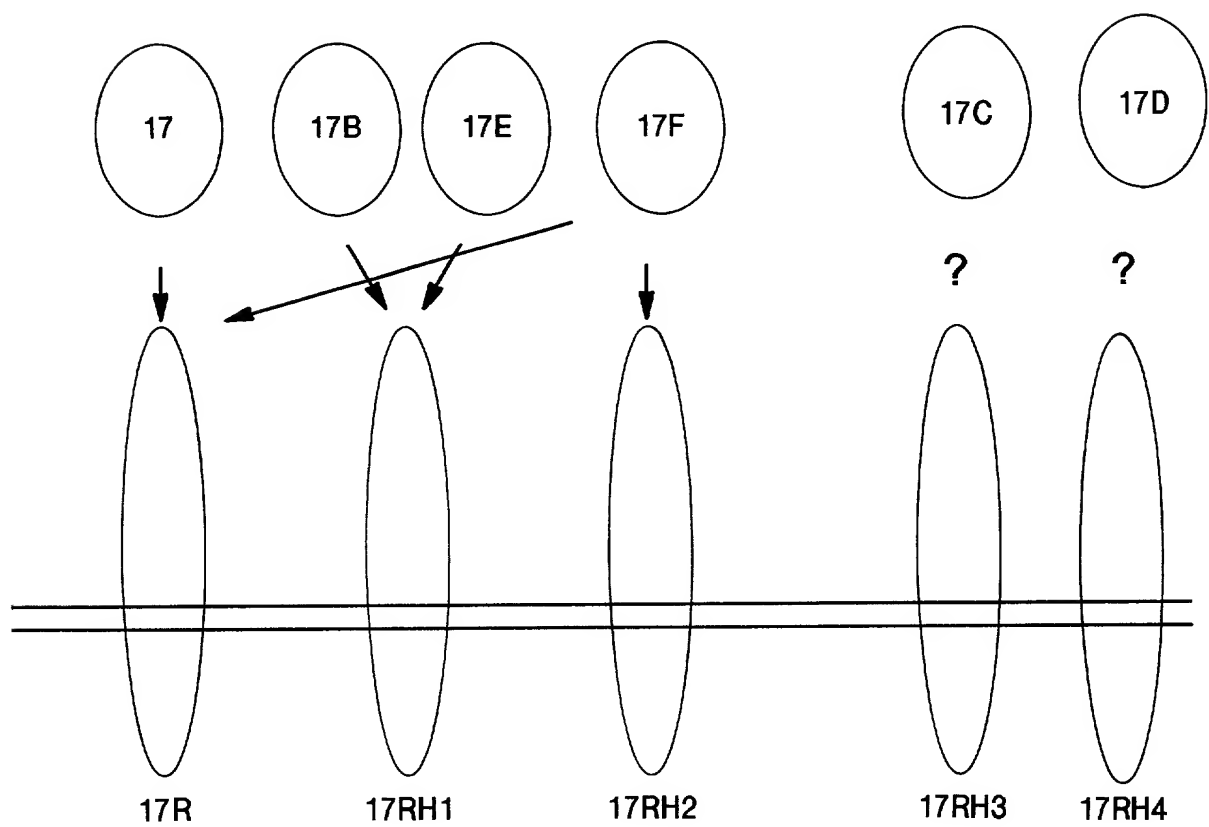


FIG. 35

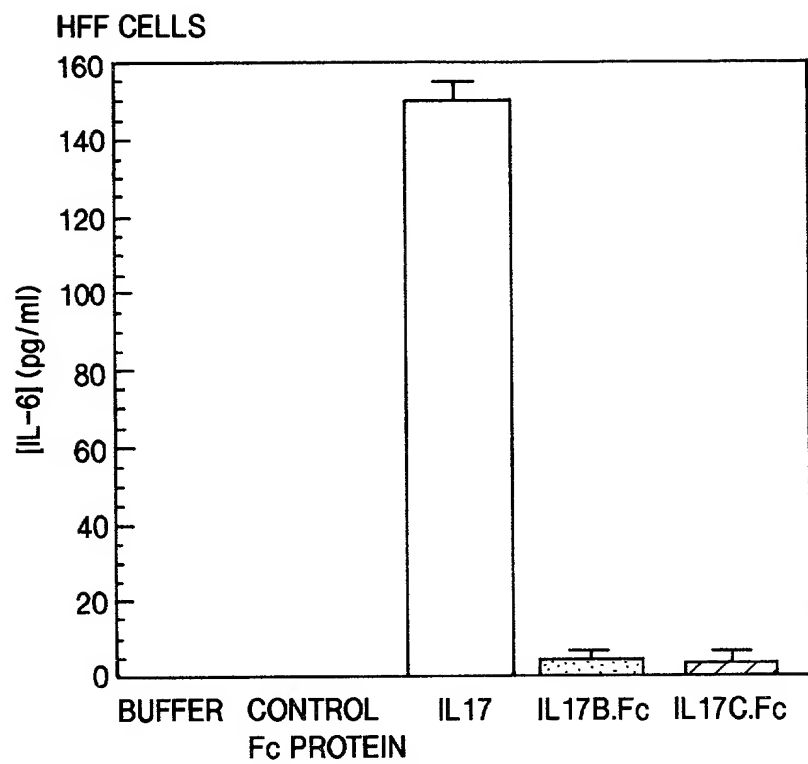


FIG. 36A

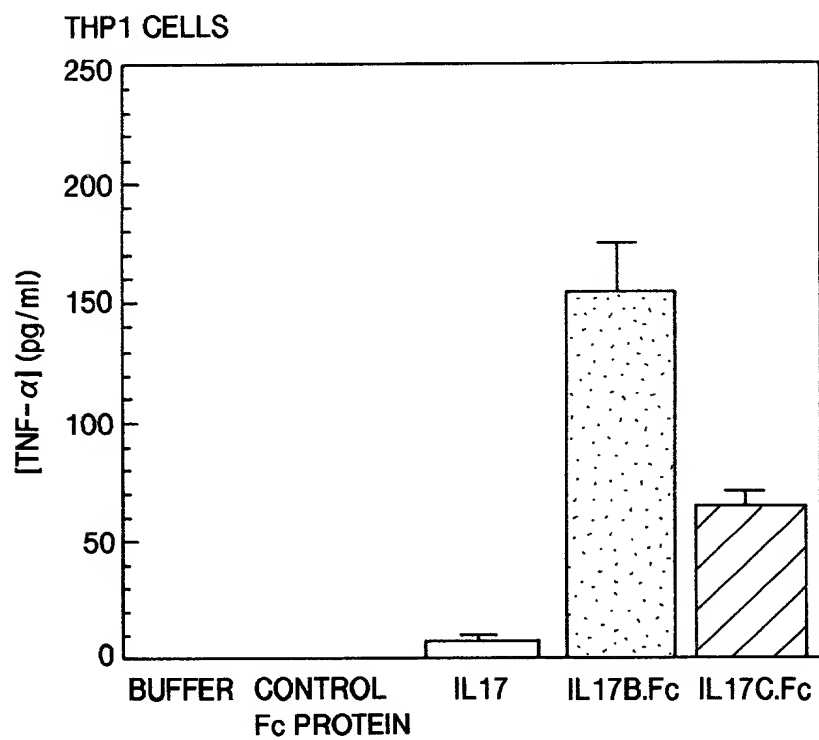


FIG. 36B

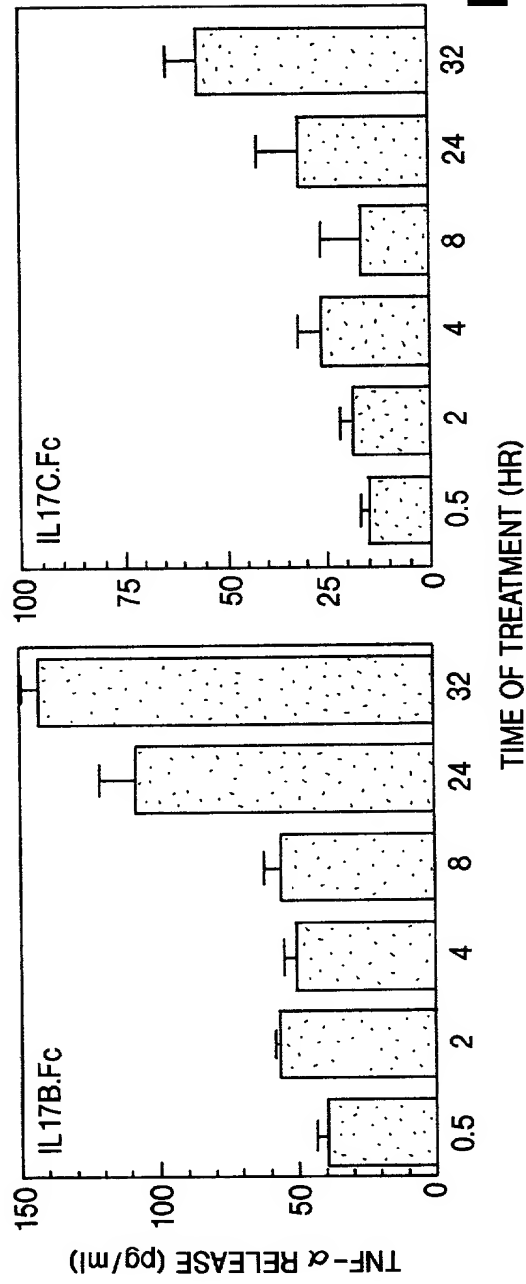


FIG. 37A

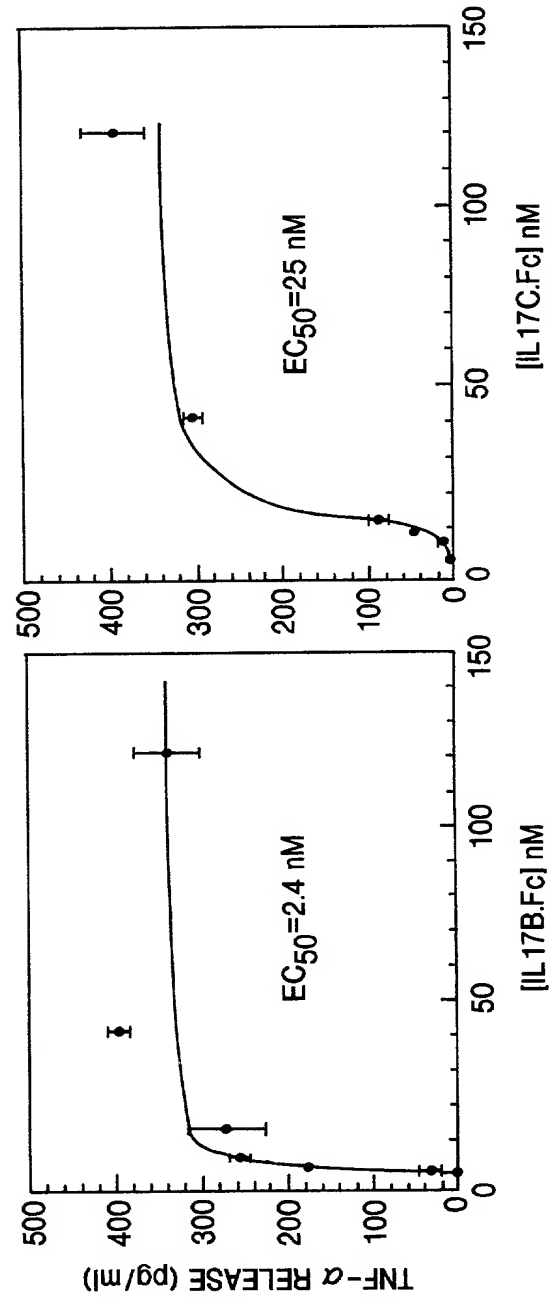


FIG. 37B

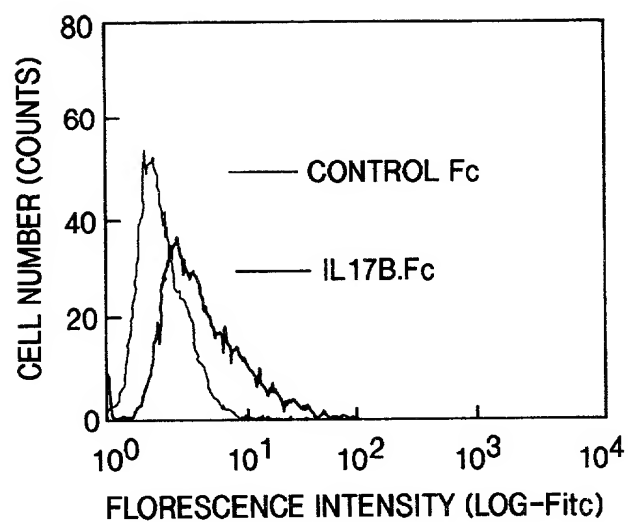


FIG. 38A

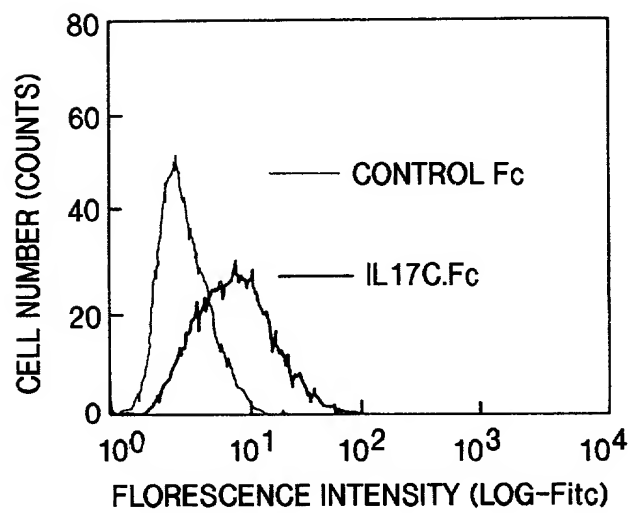


FIG. 38B

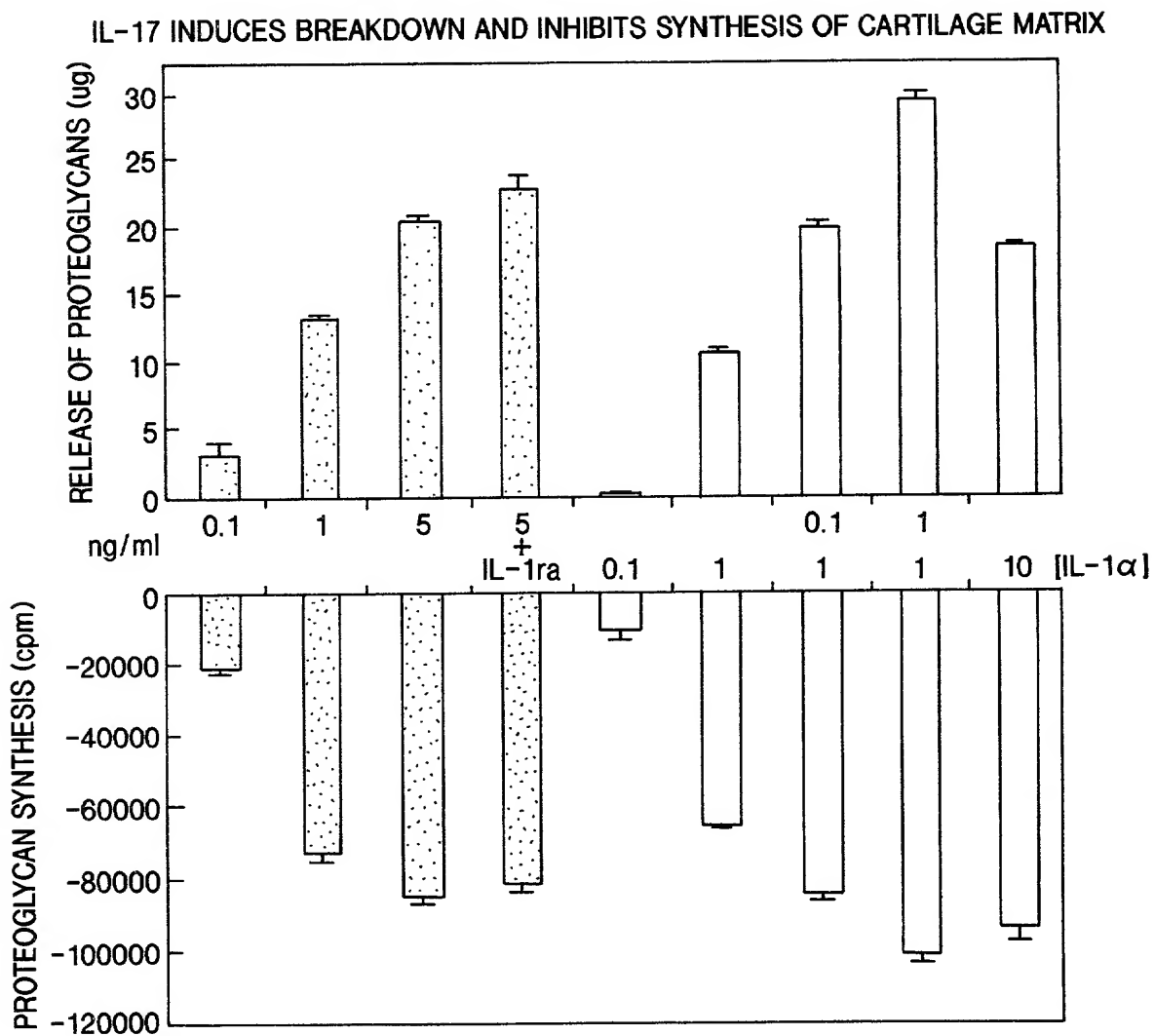


FIG. 39

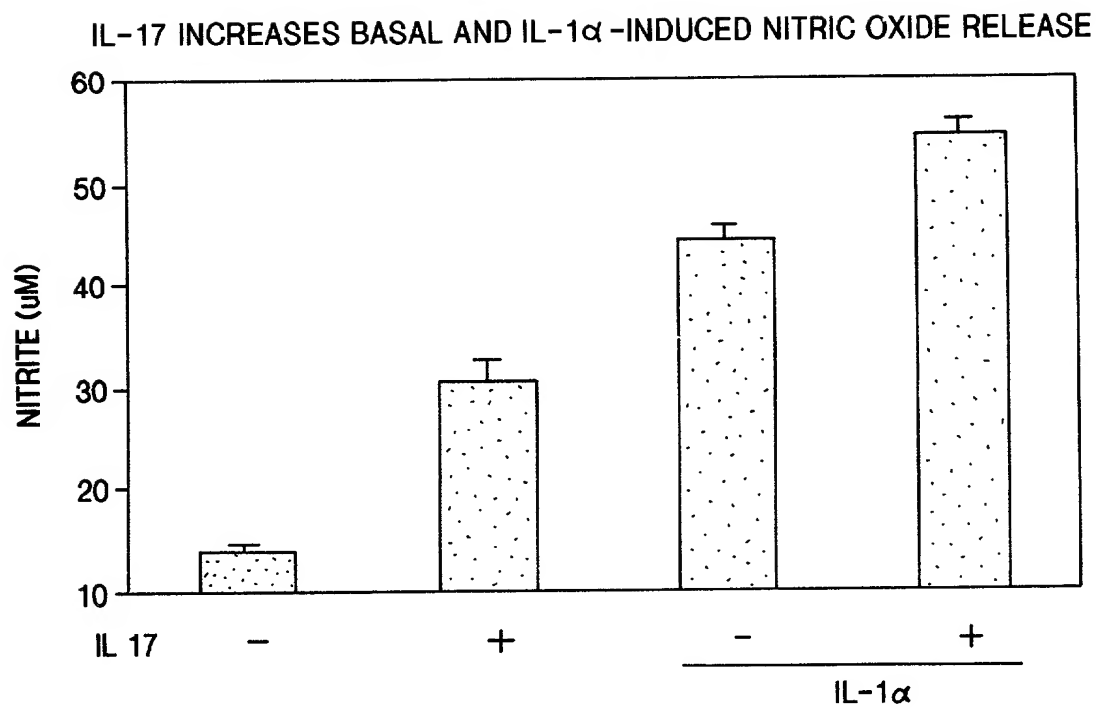


FIG. 40

INHIBITION OF NITRIC OXIDE RELEASE DOES NOT BLOCK THE DETRIMENTAL
EFFECTS OF IL 17 ON MATRIX BREAKDOWN OR SYNTHESIS

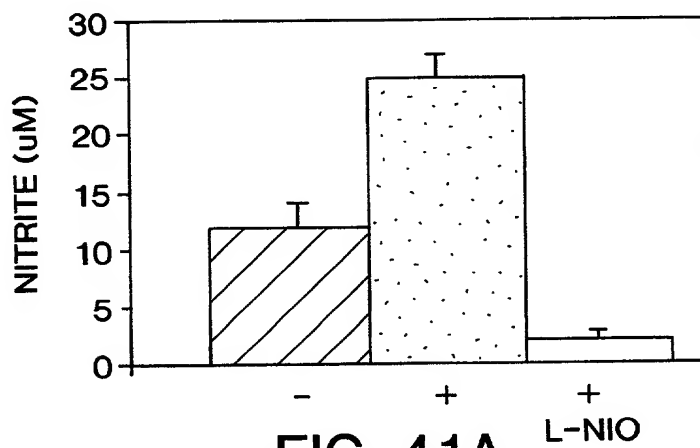


FIG. 41A

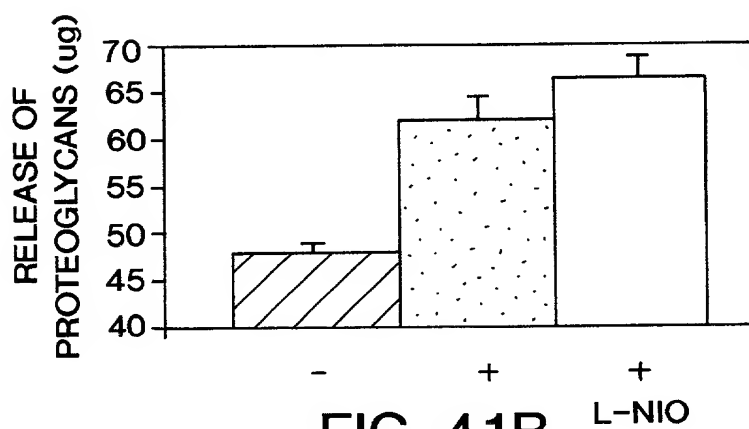


FIG. 41B

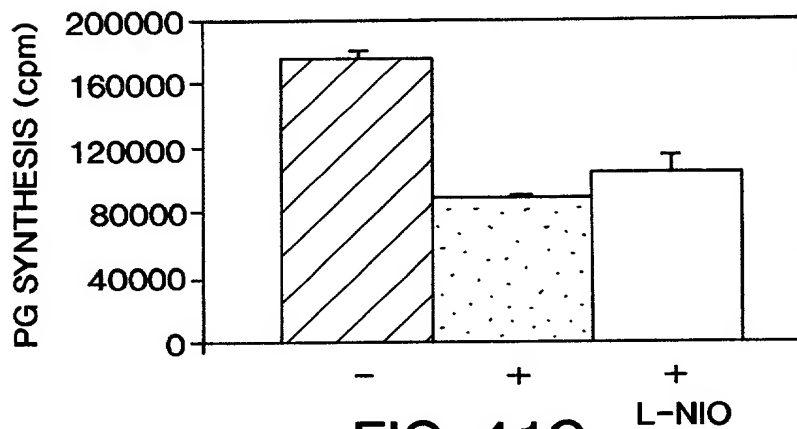


FIG. 41C

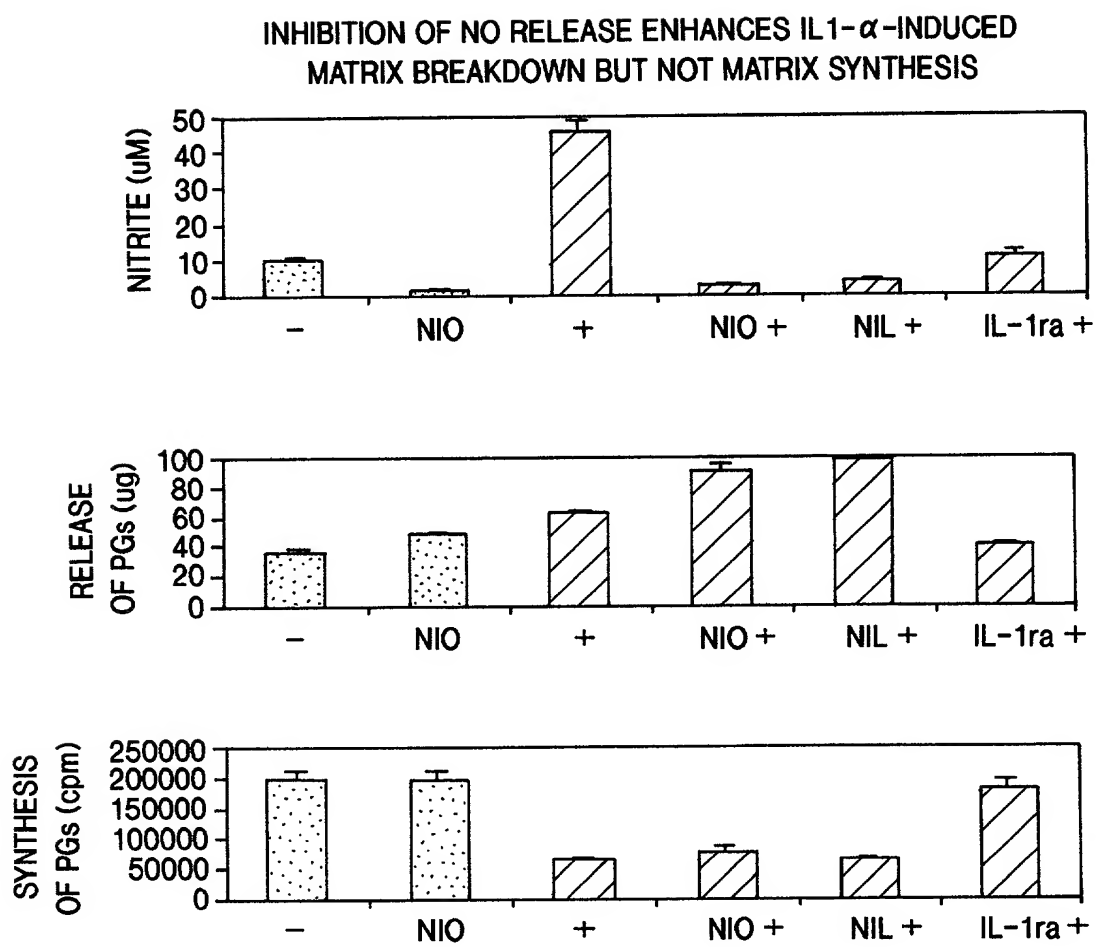


FIG. 42

IL-17C DETRIMENTAL EFFECTS ON ARTICULAR CARTILAGE

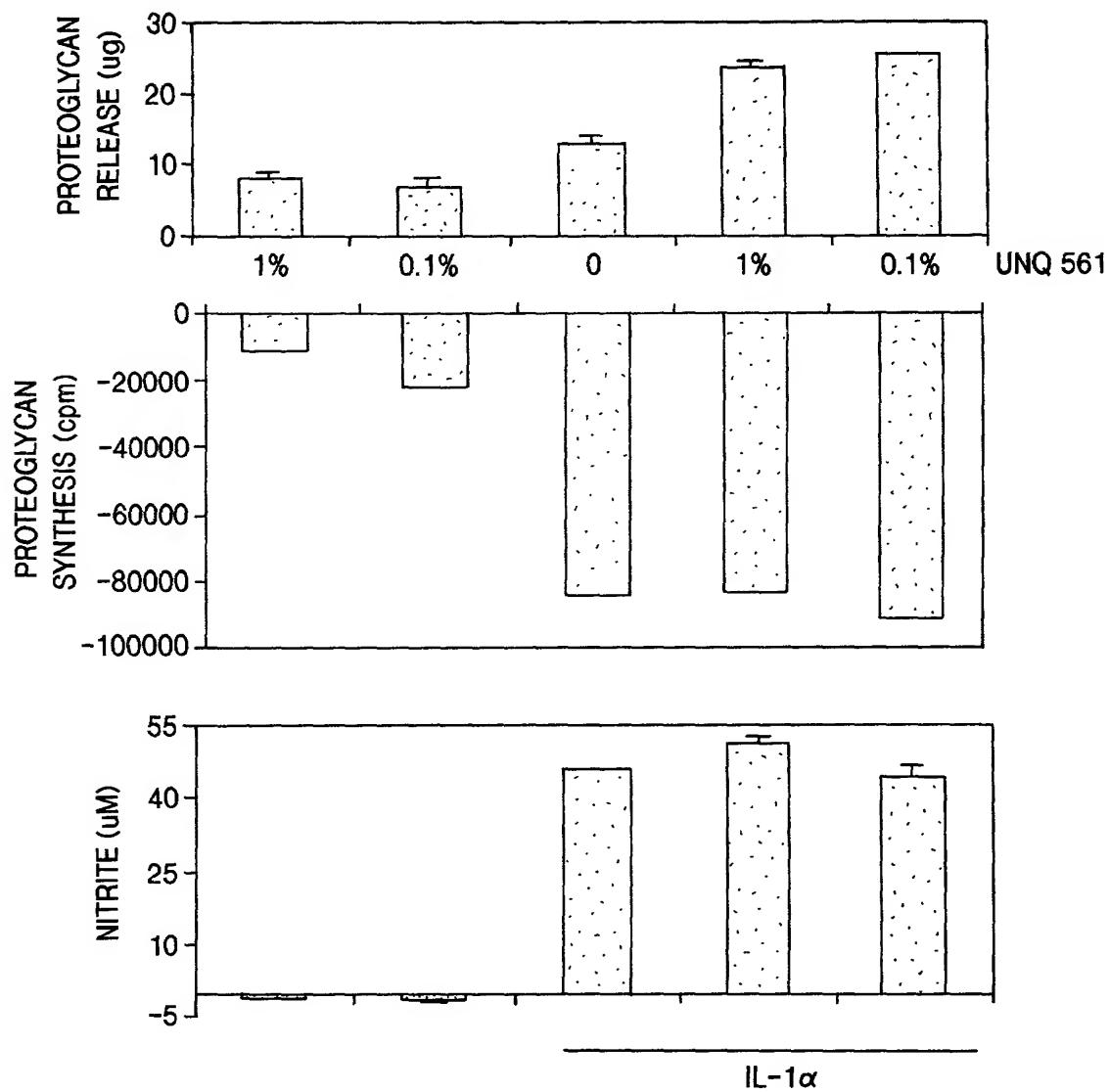


FIG. 43

INFLAMMATORY BOWEL DISEASE:
EXPRESSION OF IL-17 FAMILY IN MOUSE MODEL OF IBD

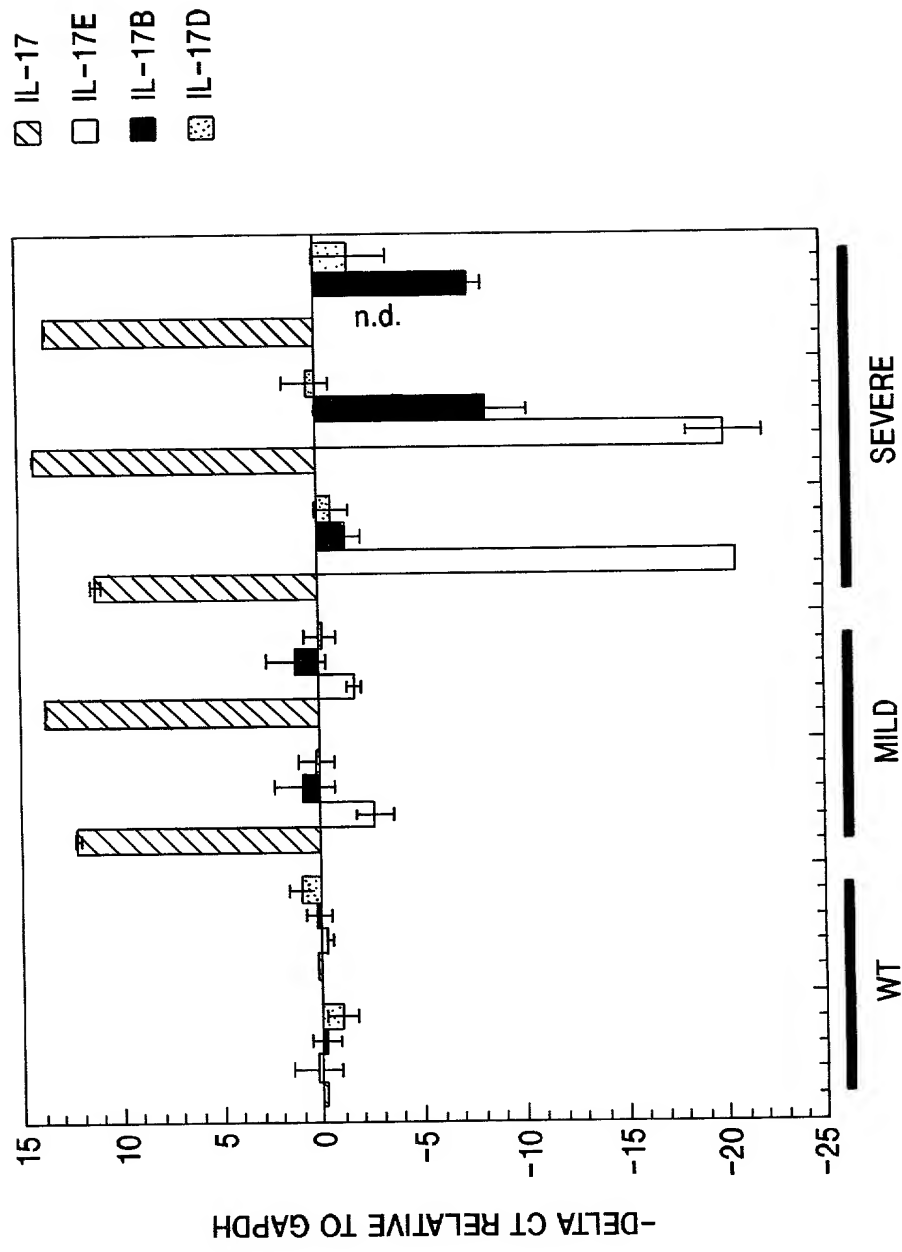


FIG. 44

IL-17D, PRESENT IN BRAIN, DECREASES RAPIDLY FOLLOWING STROKE

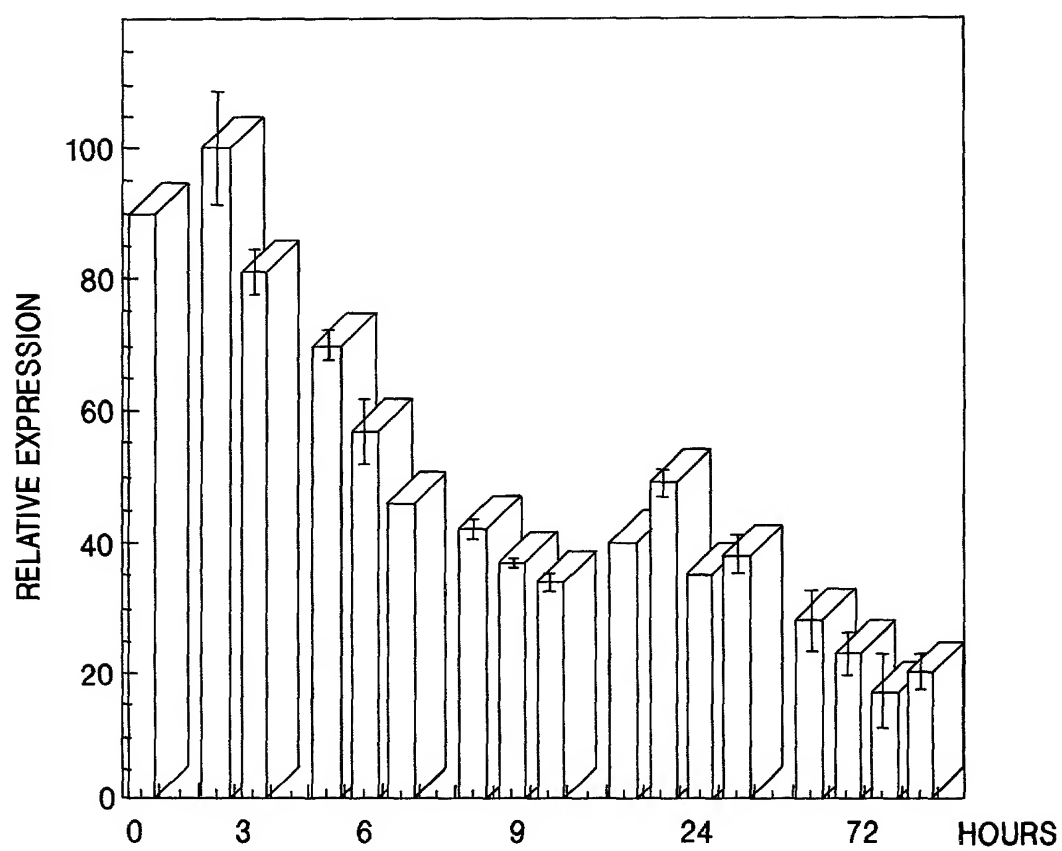


FIG. 45

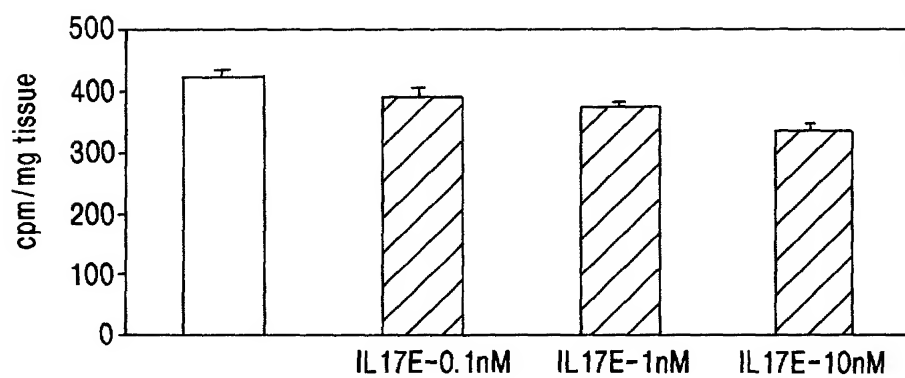


FIG. 46A

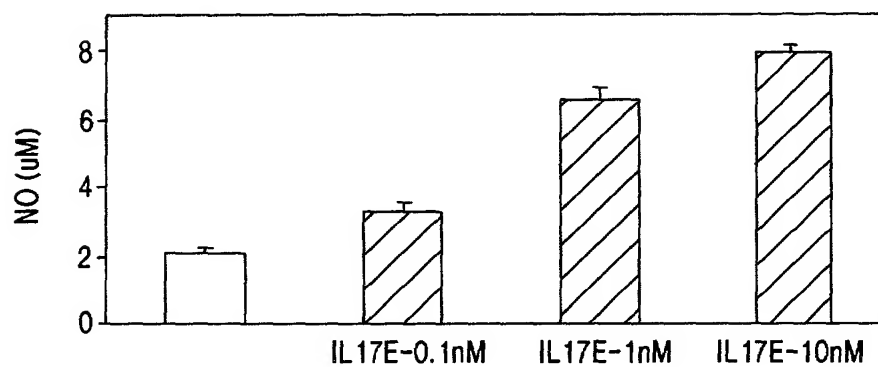


FIG. 46B

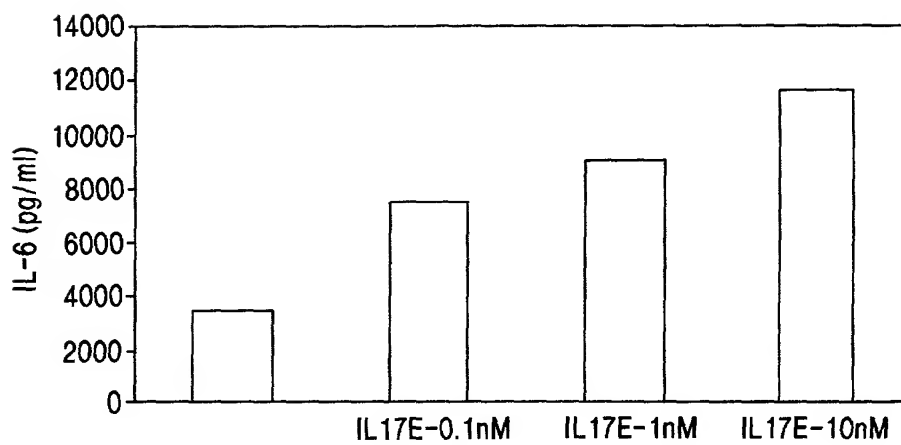


FIG. 46C

FIG. 47A

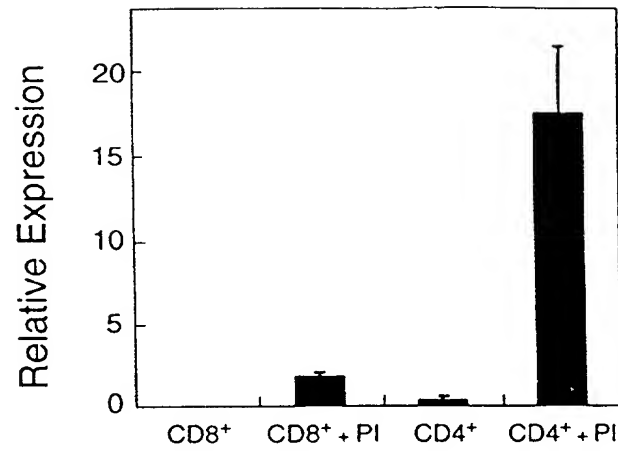


FIG. 47B

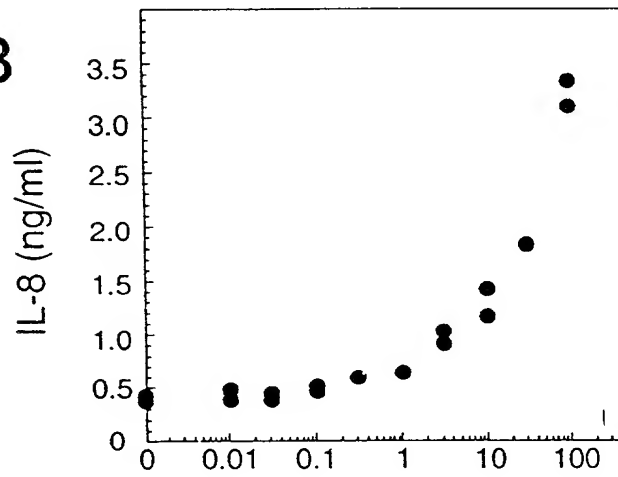
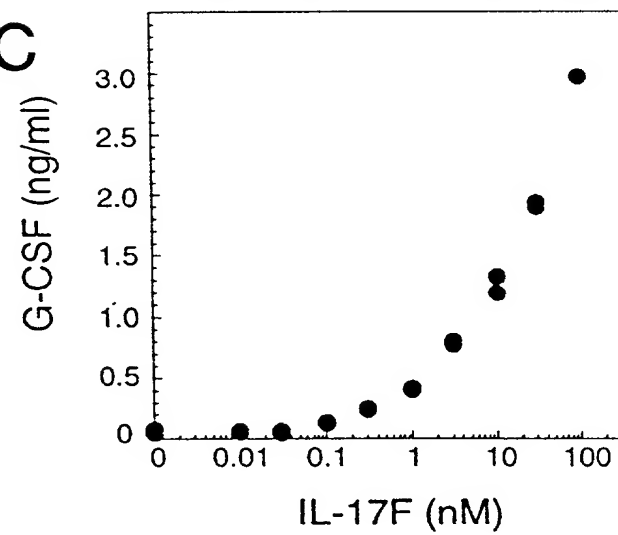


FIG. 47C



**Matrix
Breakdown**

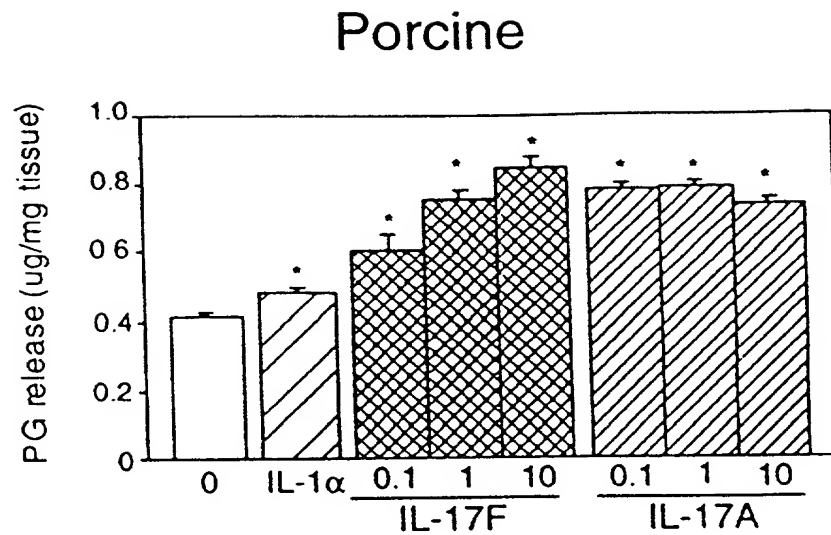


FIG. 48A

**Matrix
Synthesis**

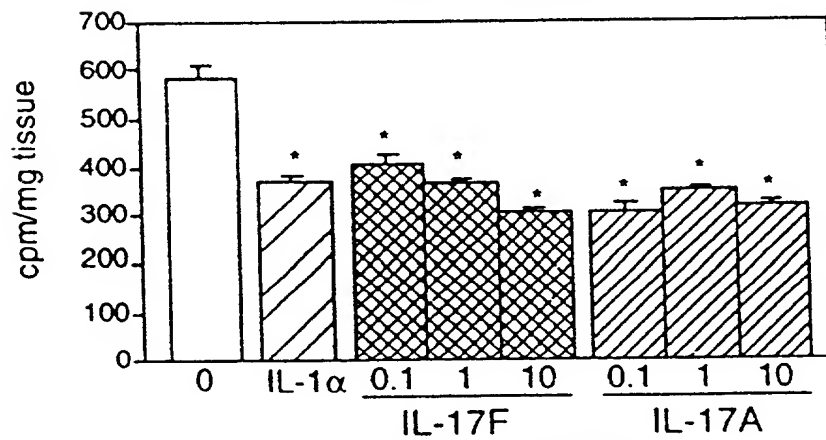


FIG. 48B

**IL-6
production**

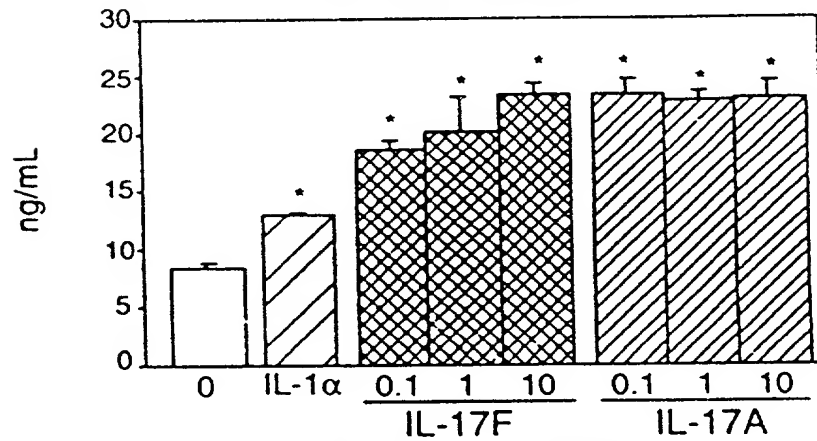


FIG. 48C

Human

Matrix
Breakdown

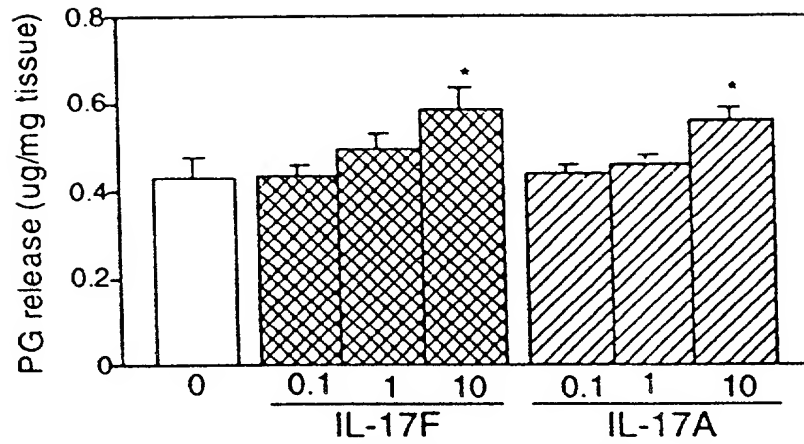


FIG. 48D

Matrix
Synthesis

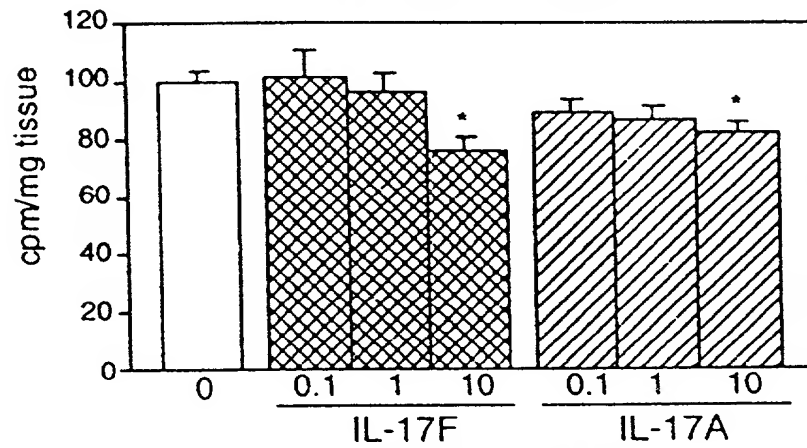


FIG. 48E

IL-6
production

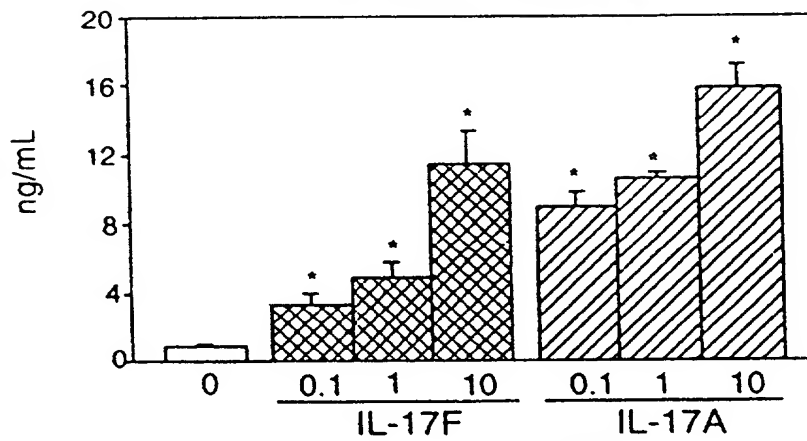


FIG. 48F

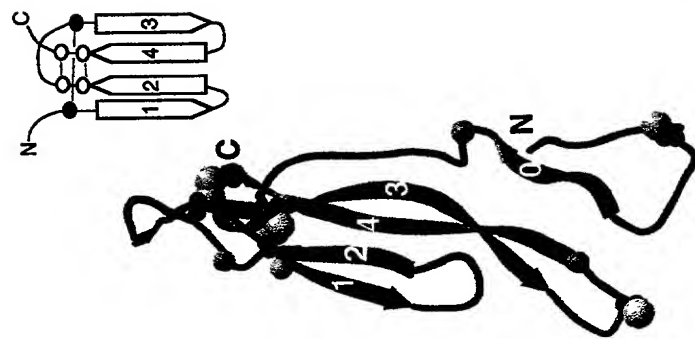


FIG. 49A

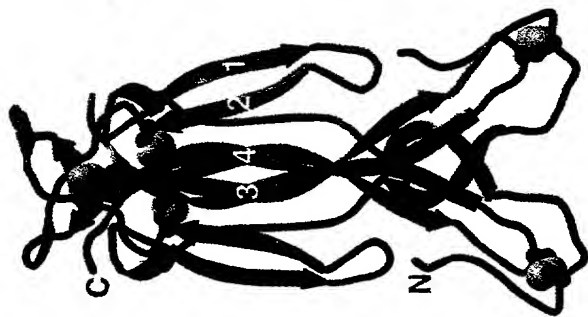


FIG. 49B

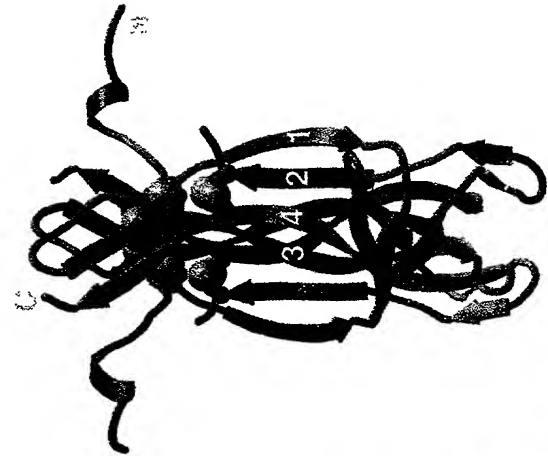


FIG. 49C

*

IL-17F	.....	.....	.....	....RKIPKVG	HTFFQKPES	17
IL-17A	.....	.....	.....	....IVKAG	ITIPRNP.G	14
IL-17B	.....QPRS	PKSKRKQGR	PGPLAPGPHQ	VPLDLVSRMK	PYARMEEYER	44
IL-17C	HHDP SLRGHP	HS HGTPH	YS AEELPLGQAP	PHLLARGAKW	GQALPVALVS	50
IL-17E	.....	.....	.....YS	HWPS PSKG	QDTSEELLRW	22

IL-17F	PPVPGG....	....SMKLDI	GIINENQSVS	MSRNIESRST	PWNYTWTWD	59
IL-17A	PNSEDKNFPR	TVMVNLNIHN	RNTNTN..PK	RSSDYNNRST	PWNLRNED	62
IL-17B	NIEEMVAQLR	..NSSELAQR	K EV....NL	QLWMSNKRSL	PWGY SINHD	88
IL-17C	SLEAASHRGR	..HERPSATT	Q PVL RPEEV	LEADTHQSI	PWRYRVDTD	98
IL-17E	STVPVPPLP	..ARPNRHPE	S RASE....	.DGPLNSRAI	PWRYELDRD	65

IL-17F	PNRYPSEVVQ	AQ RNLG IN	A..QKEDIS	MN VPI.QQE	TLVVRKHQ	106
IL-17A	PERYPSVIWE	AK RHLG IN	A..DGNVDYH	MN VPI.QQE	ILVLRREPPH	109
IL-17B	PSRIPVDLPE	AR L LG VN	PF.TMQEDRS	MV VPV.FSQ	VPVRR...L	133
IL-17C	EDRYPQKLAF	AE L RG ID	AR.TGRETA	LN VRL.LQS	LLVLR...RP	144
IL-17E	LNRLPQDLYH	AR L PH VS	LQTGSHMDPR	GN ELLYHNQ	TVFYRRP...	112

*

IL-17F	SV.....	....SFQLEK	VL..VTVG T	VTPVIHHVQ	...	133
IL-17A	PN.....	....SFRLEK	IL..MSVG T	VTPIVHVA	...	136
IL-17B	PPPPRTGP.	.....RQRA	VMTI AVG T	IF.....	...	160
IL-17C	SRDGSGLPT	PGAF AFHTEF	TH..VPVG T	V.LPRSVAA	ALE	184
IL-17E	HGEKGTHKG	.....Y LER	RLYRVSLA V	VRPRVMG..	...	145

FIG. 50

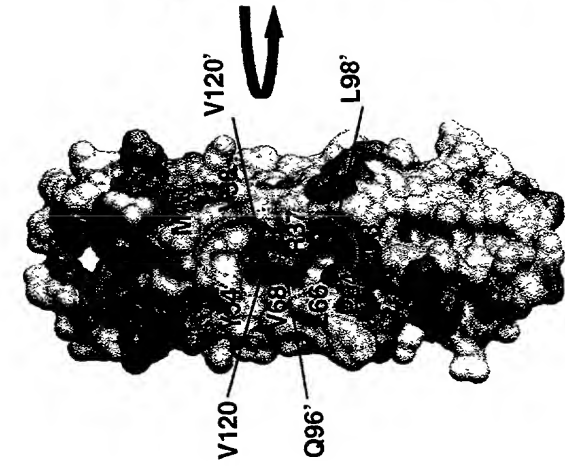


FIG. 51A

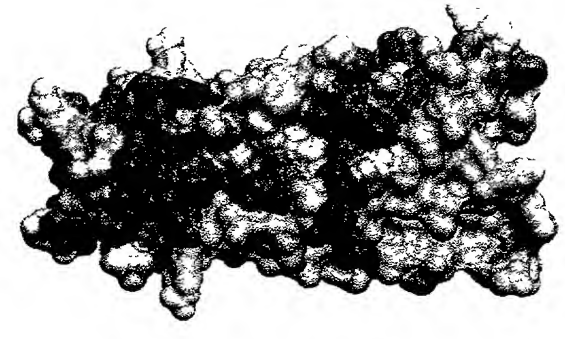


FIG. 51B

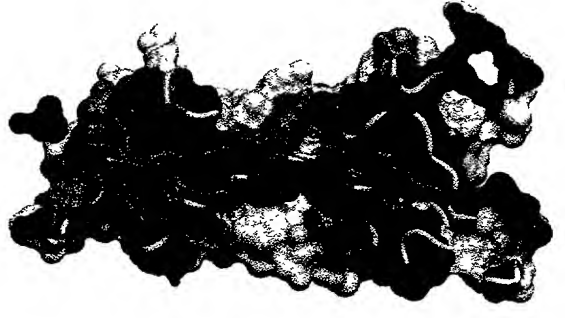


FIG. 51C

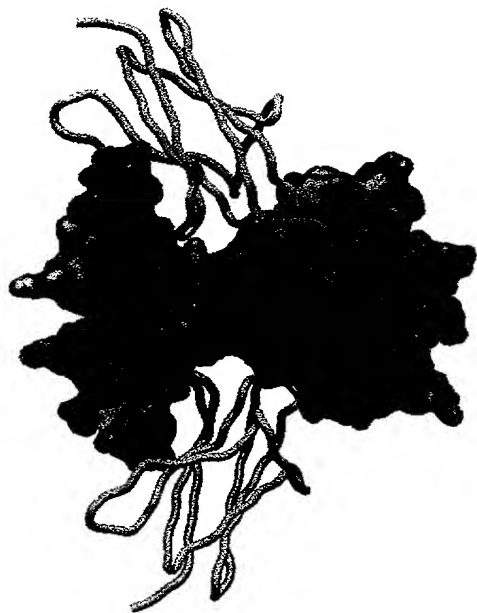


FIG. 52C

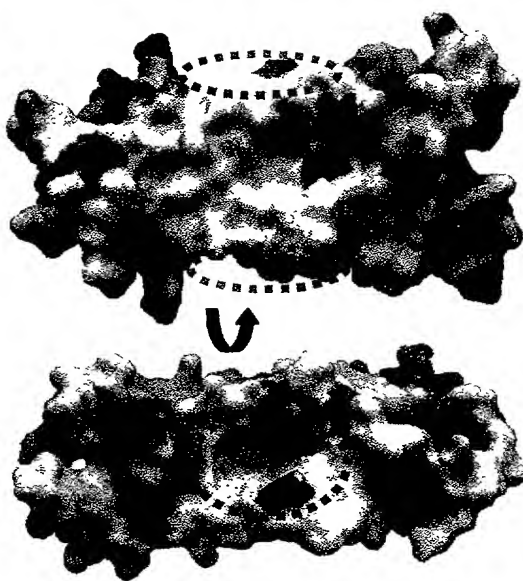


FIG. 52B



FIG. 52A

IL-17E is highly conserved between human and mouse

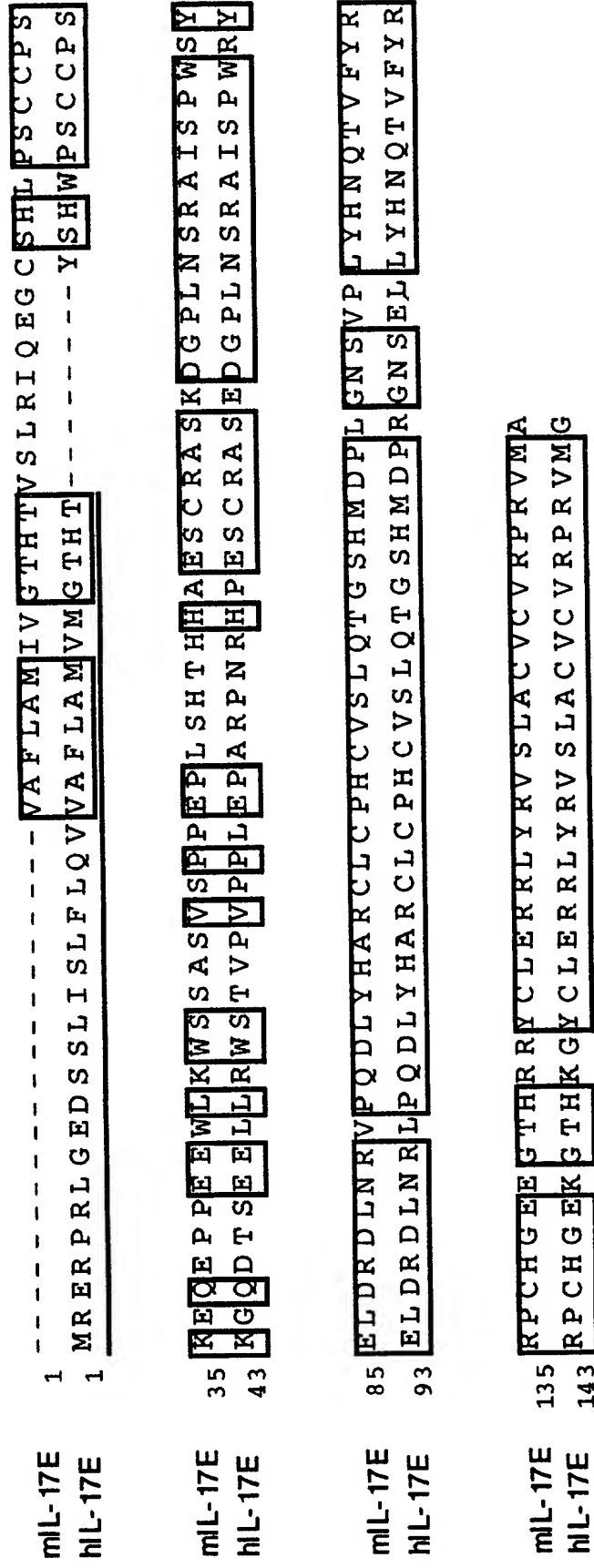
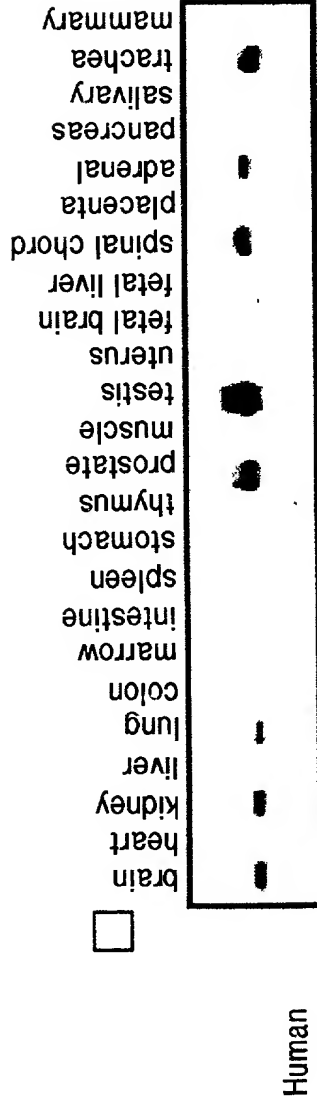


FIG. 53

Tissue distribution of IL-17E



IL-17E (PCR then probed with cDNA)

FIG. 54B

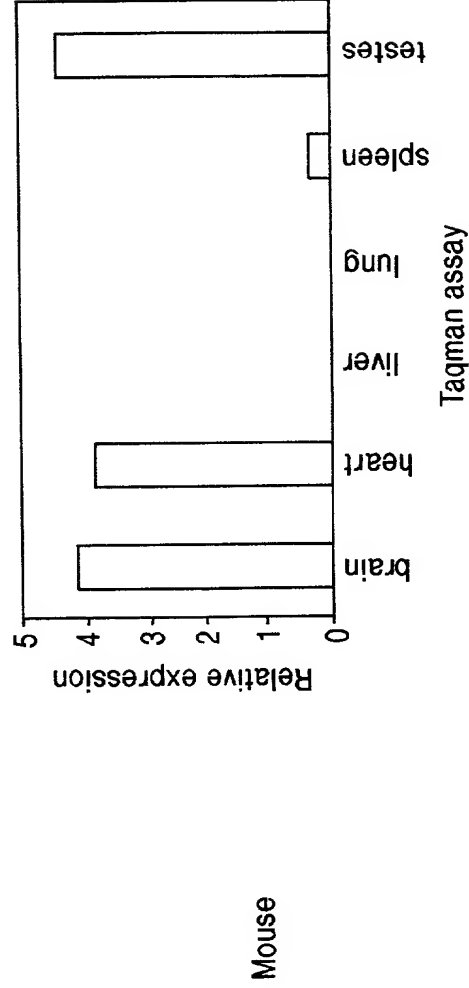


FIG. 54A

mIL-17E transgenics are growth retarded

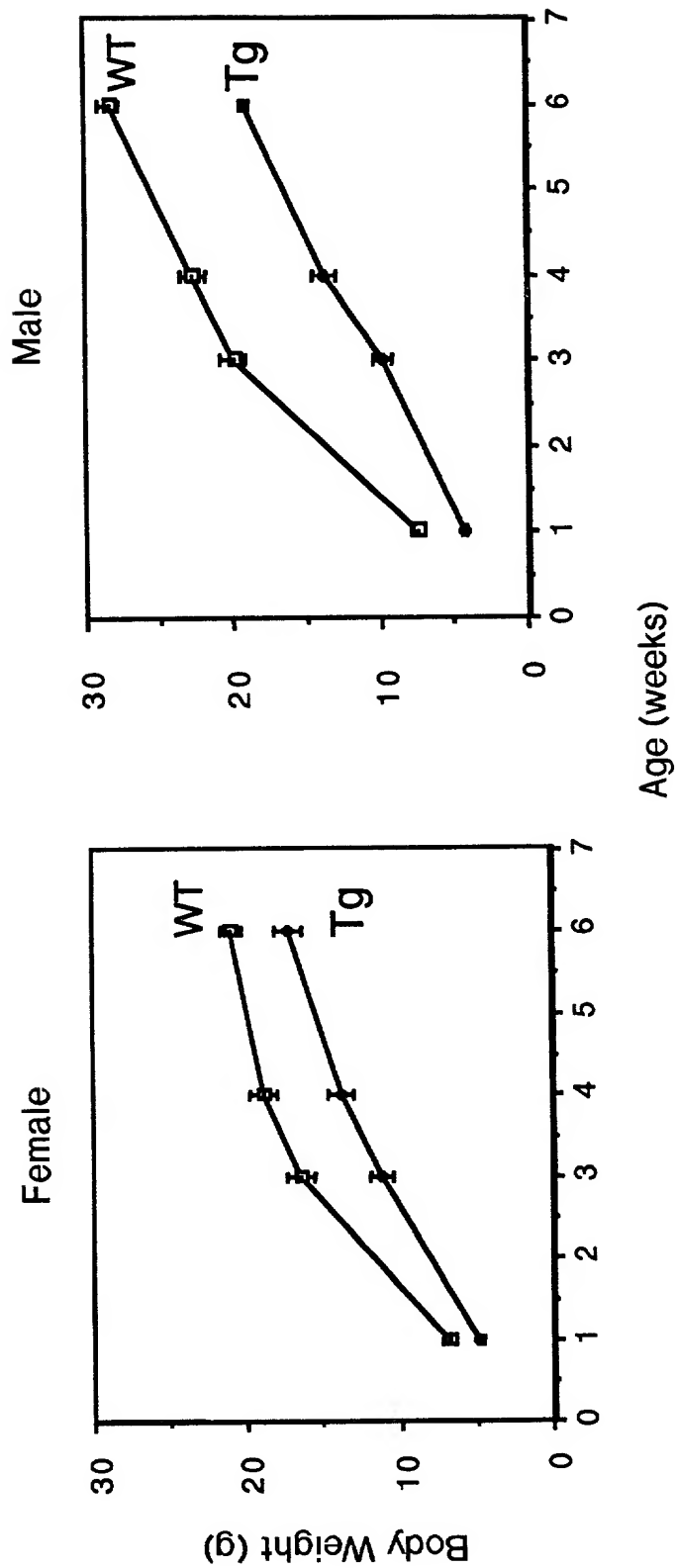


FIG. 55

TG

WT

IL-17E transgenics are jaundiced by 6 weeks of age



FIG. 56

mIL-17E transgenics have elevated total bilirubin and liver enzymes

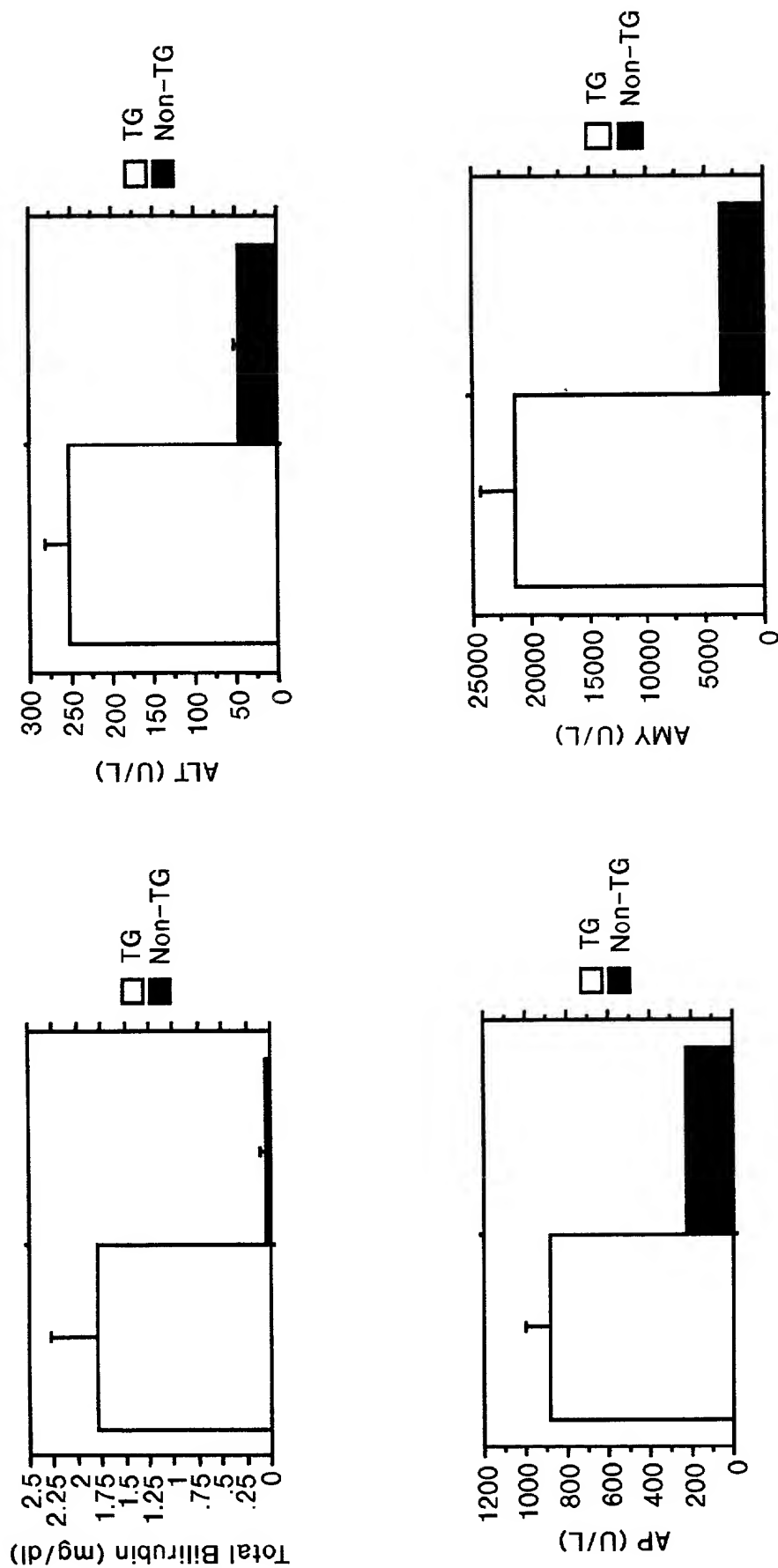


FIG. 57

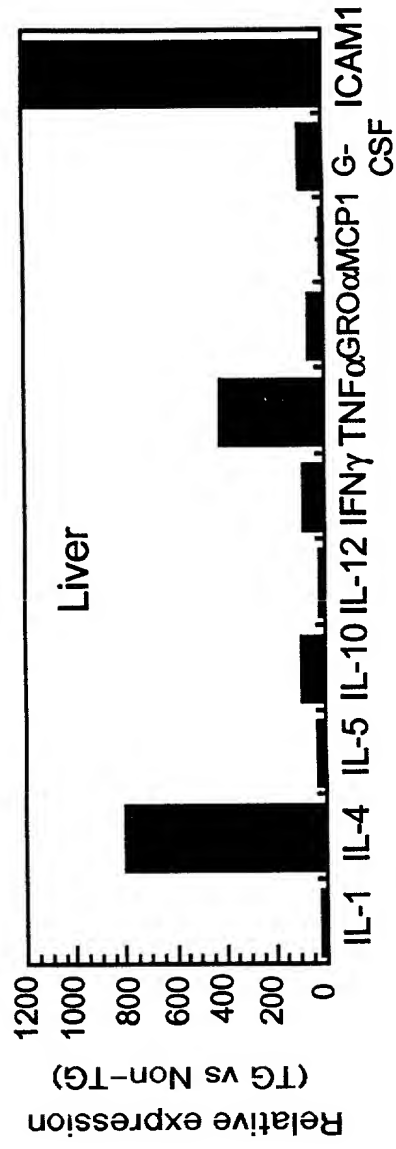


FIG. 58A

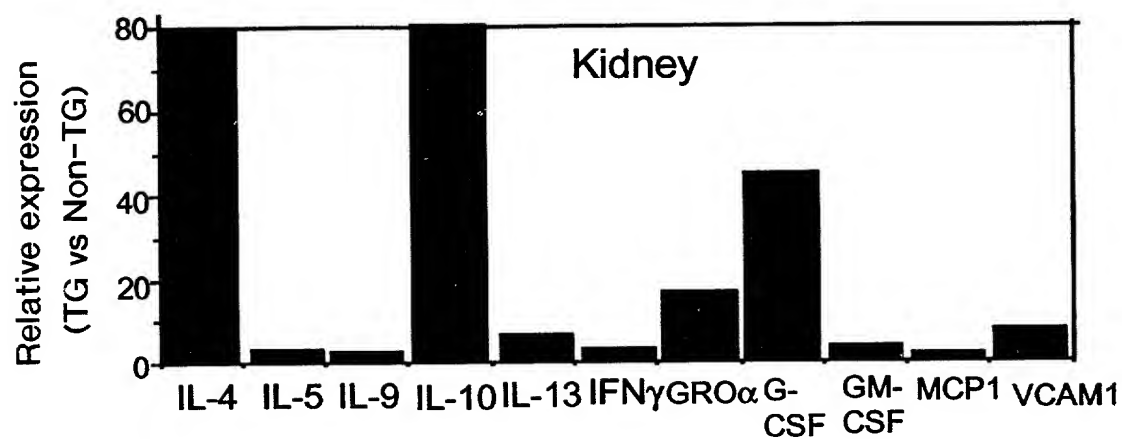


FIG. 58B

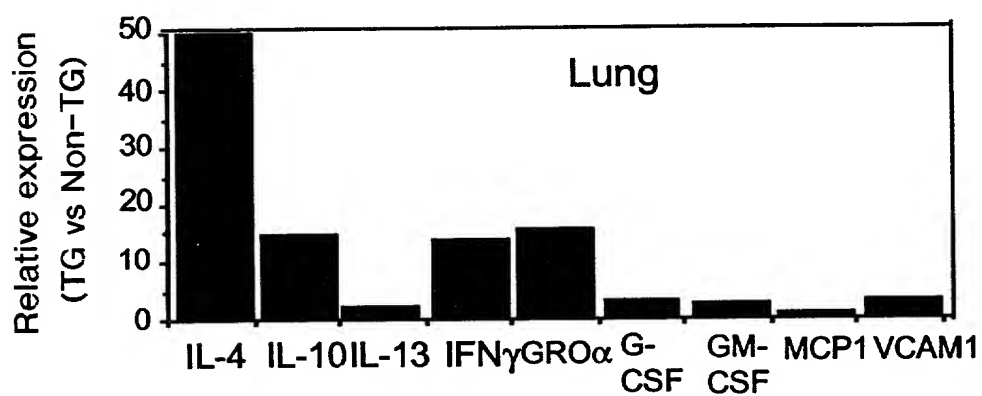


FIG. 58C

Gene profiling of IL-17E transgenics (Taqman)

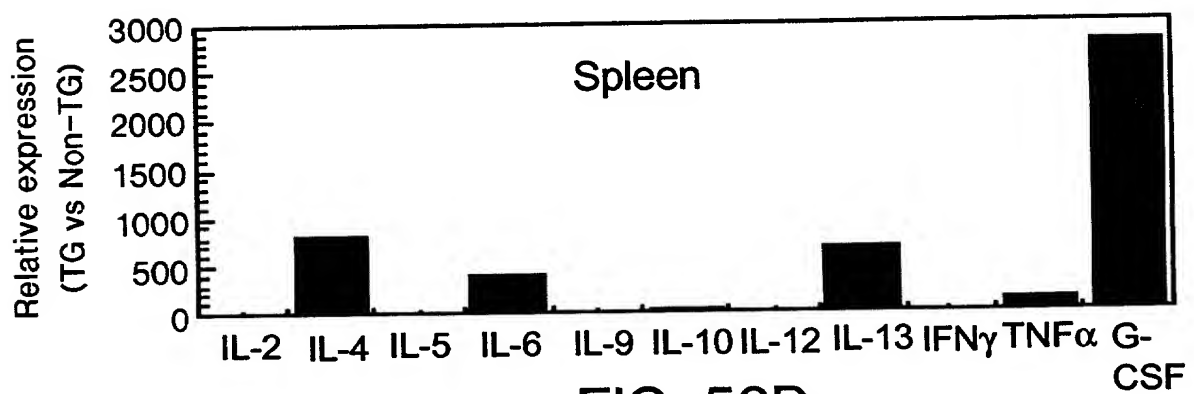


FIG. 58D

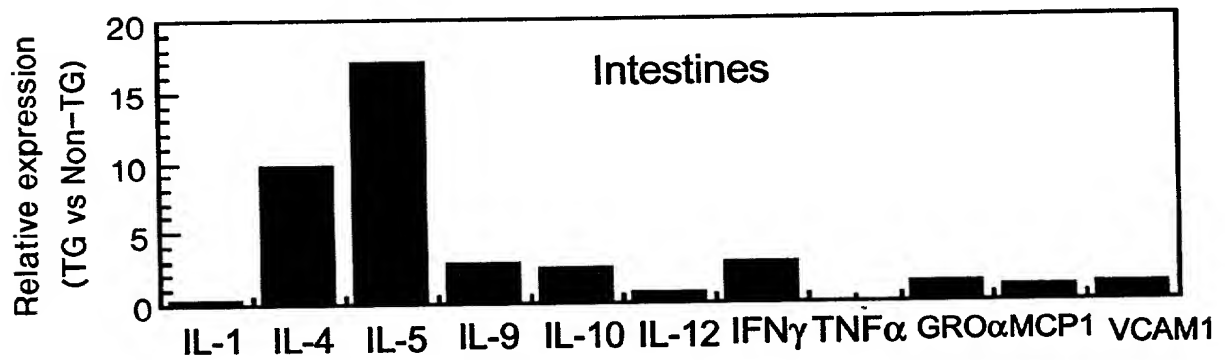


FIG. 58E

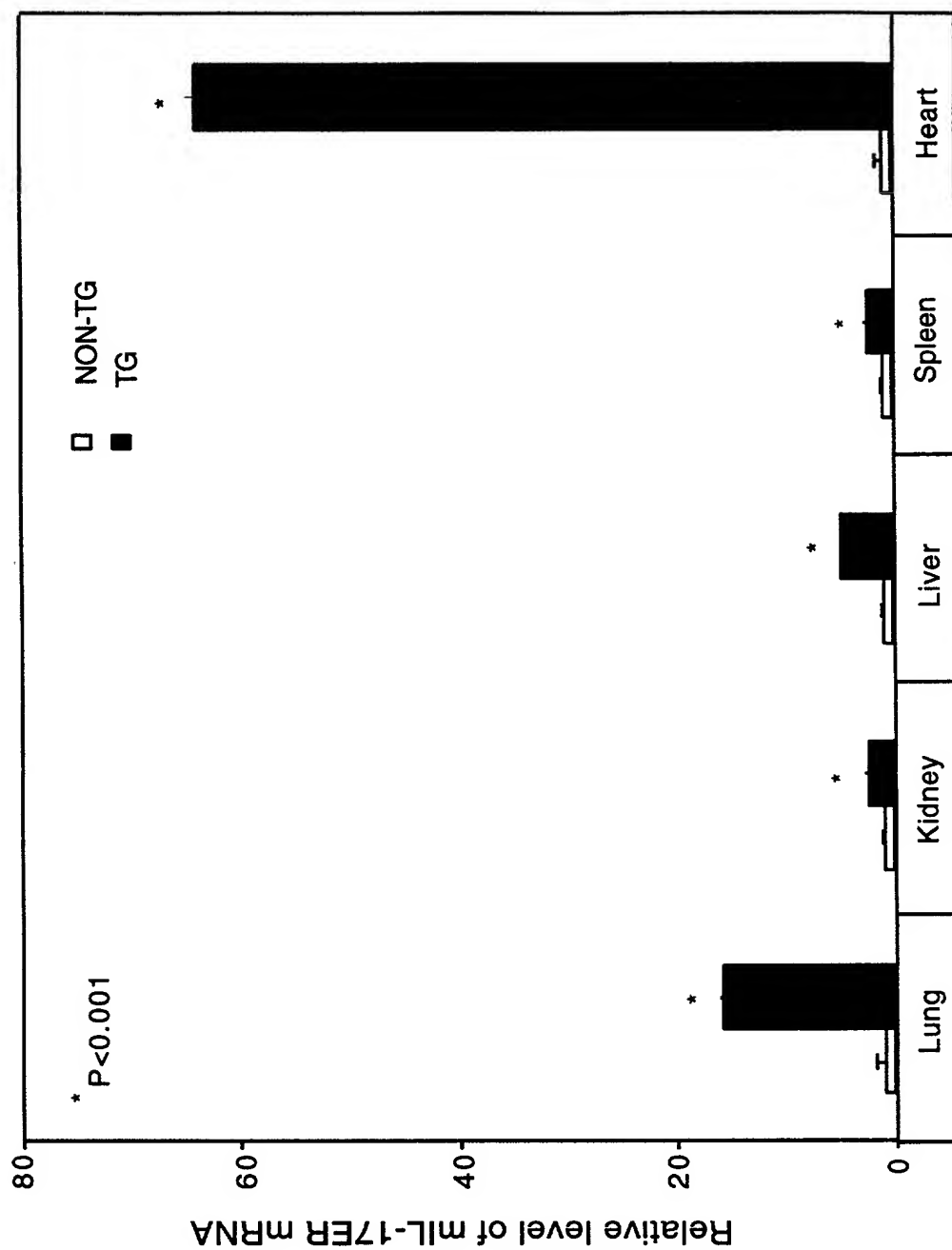


FIG. 59

Elevated serum IL-5, IL-13 and TNF α
in mIL-17E transgenics

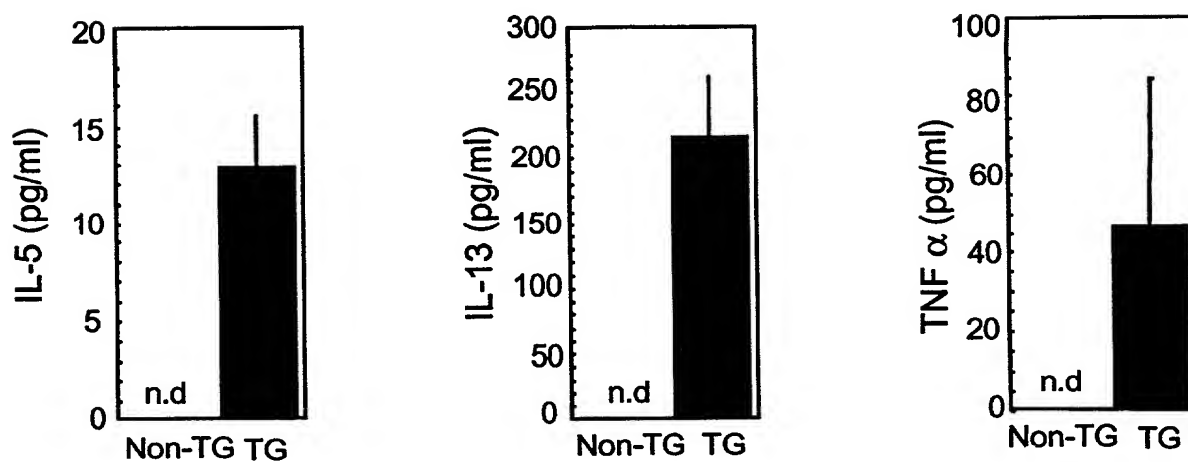


FIG. 60

Serum IgE and IgG1, but not IgG2a is elevated
in mIL-17E transgenics

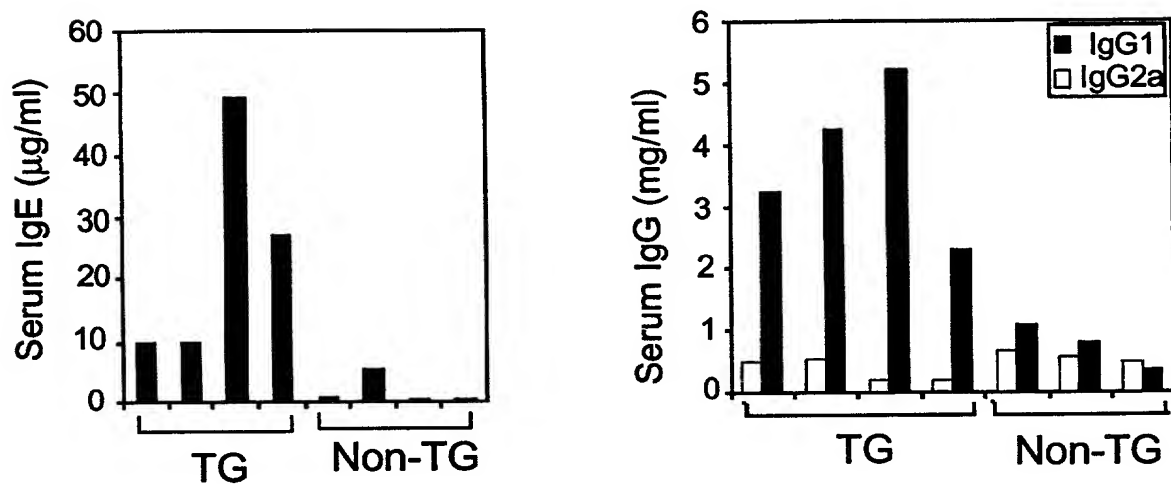


FIG. 61

PE CD19

Neutrophilia in mL-17E transgenics
(8 wks, PBMC by FACS)

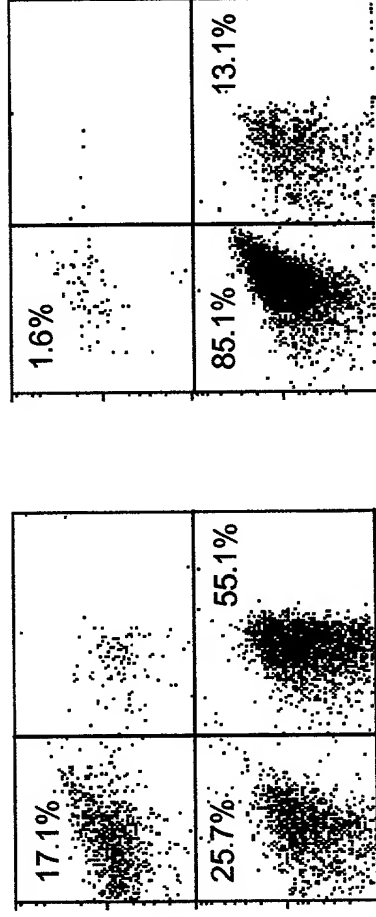


FIG. 62A

Non-TG FITC CD3 TG

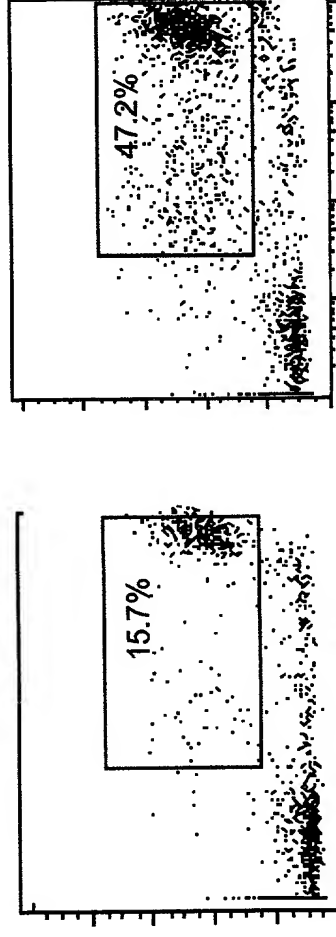


FIG. 62B

Non-TG PE GR-1
(neutrophils) TG

Neutrophilia and eosinophilia in mIL-17E transgenics (hematology)

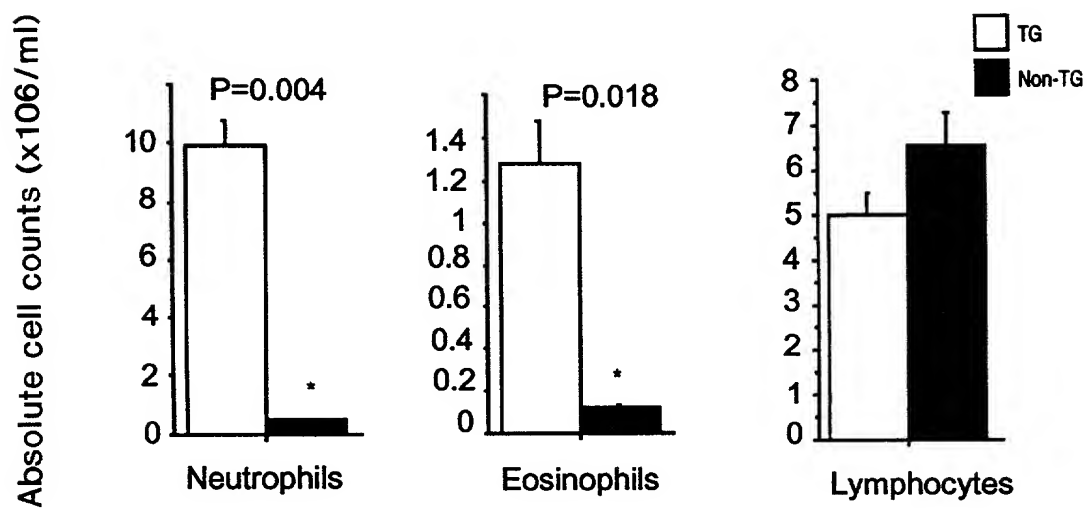


FIG. 63

G-CSF is elevated in
mIL-17E transgenics

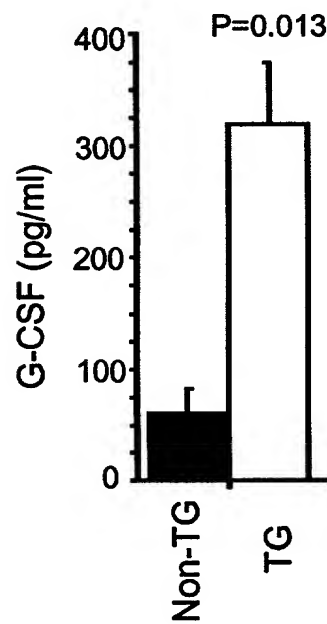


FIG. 64

IL-17E induces production of G-CSF in vitro

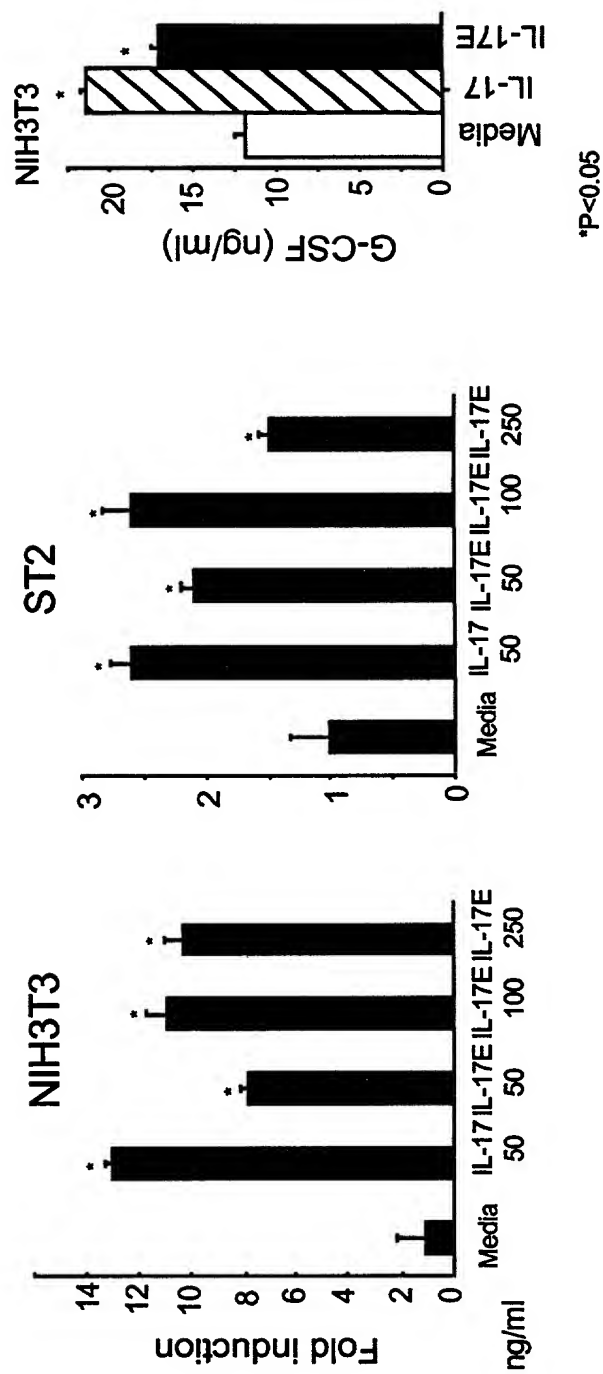


FIG. 65

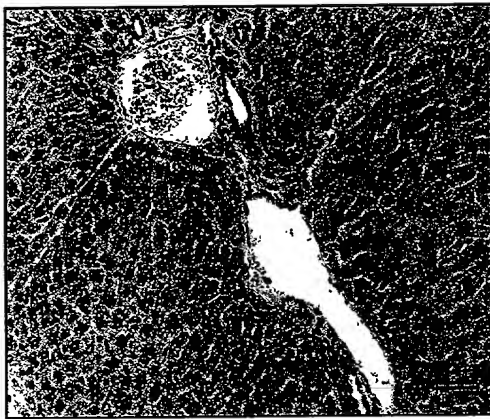


FIG. 66A



FIG. 66B

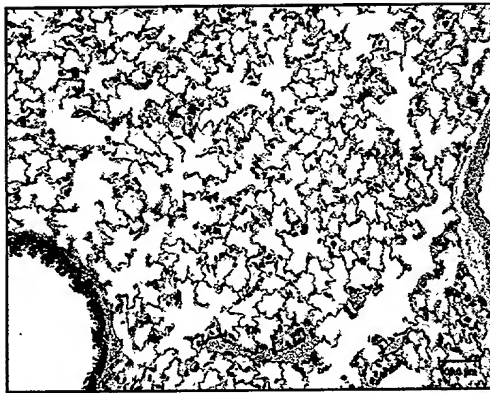


FIG. 66C

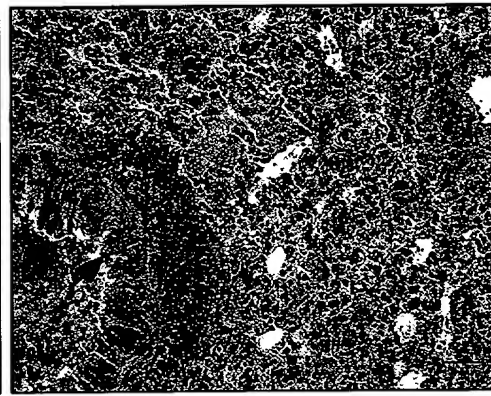


FIG. 66D